

OWNER'S MANUAL

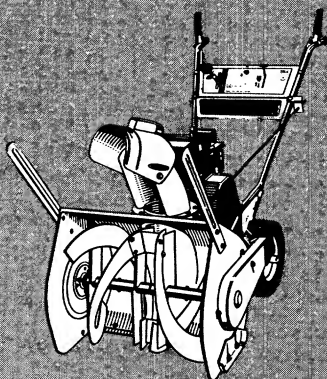
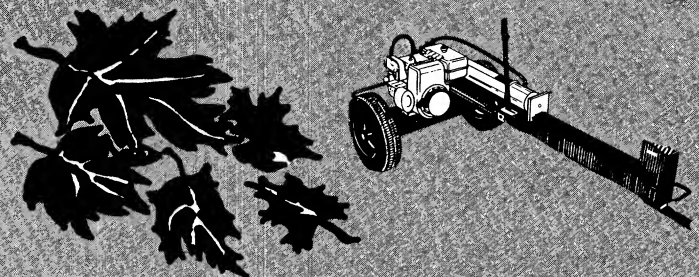
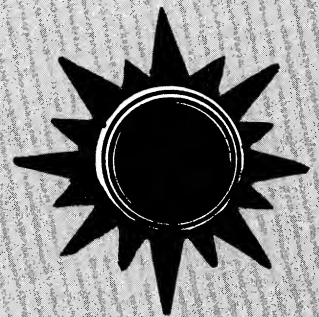
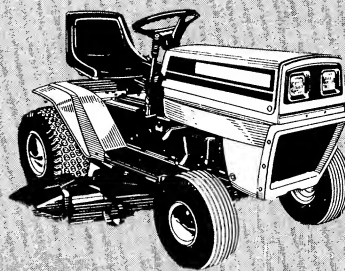
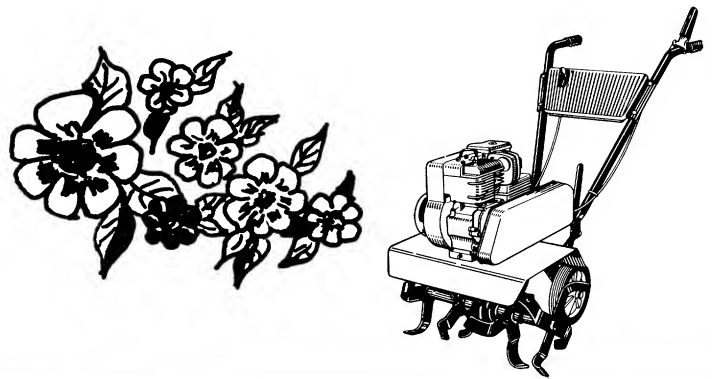
11 H.P. and 16 H.P. HYDROSTATIC LAWN TRACTORS

Model Numbers

**132-760A
132-784A
132-786A**

**Important:
Read Safety Rules and
Instructions Carefully**

Thank you for purchasing an
American built product.



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LIMITED WARRANTY

For one year from the date of original retail purchase, MTD PRODUCTS INC will either repair or replace, at its option, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. Transportation charges for the movement of any power equipment unit or attachment are the responsibility of the purchaser. Transportation charges for any parts submitted for replacement under this warranty must be paid by the purchaser unless such return is requested by MTD PRODUCTS INC.

This warranty will not apply to any part which has become inoperative due to misuse, excessive use, accident, neglect, improper maintenance, alterations, or unless the unit has been operated and maintained in accordance with the instructions furnished. This warranty does not apply to the engine, motor, battery, battery charger or component parts thereof. Please refer to the applicable manufacturer's warranty on these items.

This warranty will not apply where the unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. If you do not know the dealer or distributor in your area, please write to the Customer Service Department of MTD.

The return of a complete unit will not be accepted by the factory unless prior written permission has been extended by MTD.

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.



WARNING

TO PURCHASERS OF INTERNAL COMBUSTION ENGINE EQUIPPED MACHINERY OR DEVICES IN THE STATE OF CALIFORNIA

The equipment which you have just purchased does not have a spark arrester. If this equipment is used on any forest covered land, brush covered land, or grass covered unimproved land in the State of California, before using on such land, the California law requires that a spark arrester be provided. In addition, spark arrester is required by law to be in effective working order. The spark arrester must be attached to the exhaust system and comply with Section 4442 of the California Public Resources Code.



WARNING

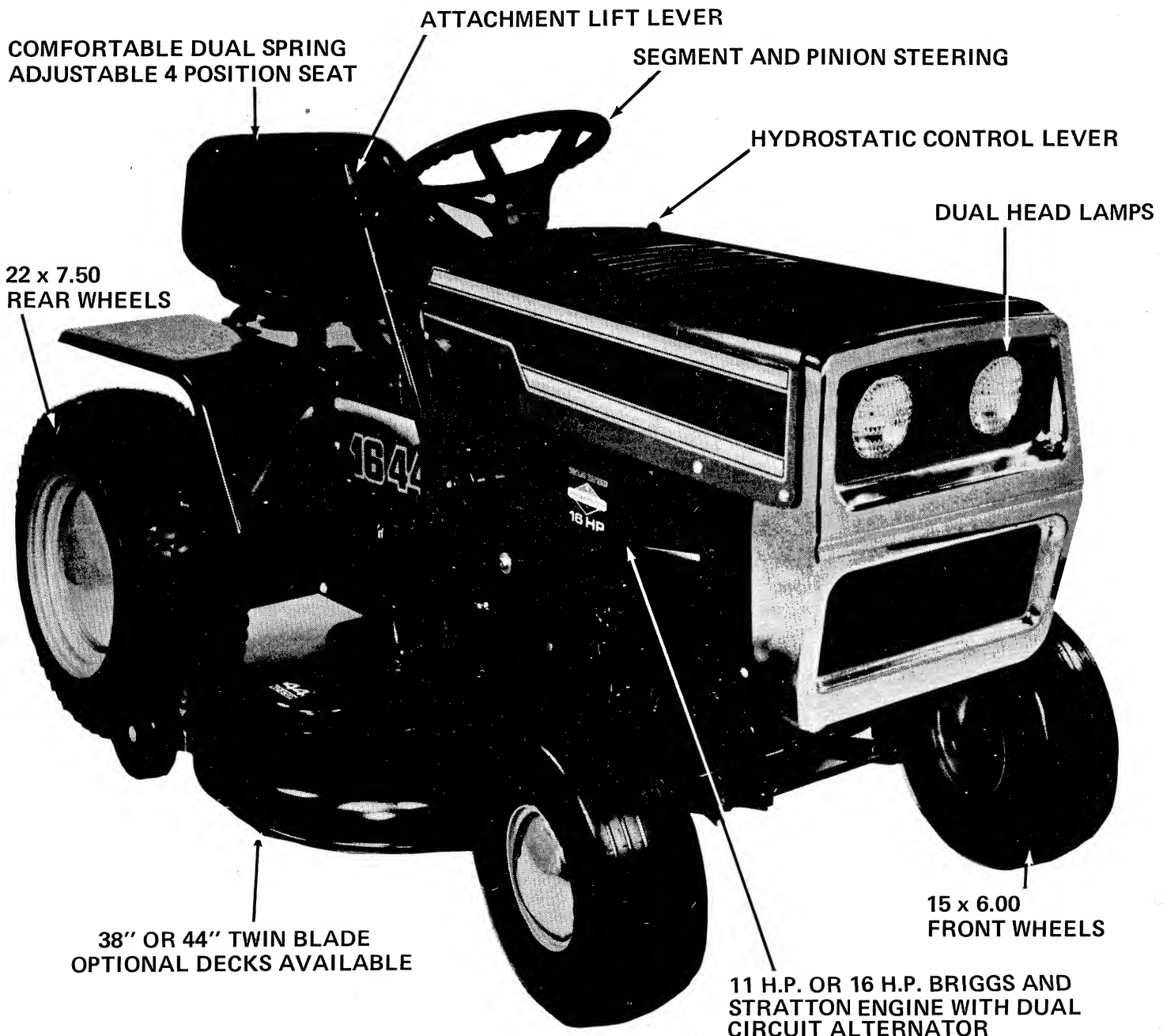
To reduce the potential for any injury, comply with the following safety instructions. Failure to comply with the instructions may result in personal injury.

SAFE OPERATION PRACTICES FOR RIDING VEHICLES

1. It is suggested that this manual be read in its entirety before attempting to assemble or operate this unit. Keep this manual in a safe place for future reference and for ordering replacement parts.
2. This unit is a precision piece of power equipment, not a plaything. Therefore exercise extreme caution at all times.
3. Know the controls and how to stop quickly—**READ THIS OWNER'S MANUAL.**
4. Do not allow children to operate vehicle. Do not allow adults to operate it without proper instruction. Only persons well acquainted with these rules of safe operation should be allowed to use your mower.
5. No one should operate this unit while intoxicated or while taking medication that impairs the senses or reactions.
6. Wear sturdy, rough-soled work shoes and close-fitting slacks and shirts to avoid entanglement in the moving parts. Never operate a unit in bare feet, sandals, or sneakers.
7. To prevent injury, do not carry passengers or give rides. Keep children, pets and bystanders out of the area while mowing. Only the operator should ride on the unit and only ride in the seat.
8. Check overhead clearance carefully before driving under power lines, guy wires, bridges or low hanging tree branches, before entering or leaving buildings, or in any other situation where the operator may be struck or pulled from the unit, which could result in serious injury.
9. To maintain control of the unit and reduce the possibility of upset or collision, operate the tractor smoothly. Avoid erratic operation and excessive speed.
10. Keep the area of operation clear of all persons, particularly small children and pets. Stop engine when they are in the vicinity of your mower. Although the area of operation should be completely cleared of foreign objects, a small object may have been overlooked and could be accidentally thrown by the mower in any direction and cause injury.
11. Clear work area of objects which might be picked up and thrown by the mower in any direction and cause injury.
12. Stop the blade(s) when crossing gravel drives, walks or roads.
13. Disengage all attachment clutches and shift into neutral before attempting to start engine.
14. Disengage power to attachment(s) and stop engine before leaving operating position.
15. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times as the rotating blade(s) can cause injury.
16. Disengage power to attachment(s) and stop engine before making any repairs or adjustments. Disconnect the spark plug wire and keep the wire away from the plug to prevent accidental starting.
17. Before attempting to unclog the mower or discharge chute, stop the engine. The mower blade(s) may continue to rotate for a few seconds after the engine is shut off. Therefore, be sure the blade(s) have stopped completely. Disconnect the spark plug wire and keep the wire away from the plug to prevent accidental starting.
18. Disengage power to attachment(s) when transporting or not in use.
19. Take all possible precautions when leaving vehicle unattended such as disengaging power-take-off, lowering attachments, shifting into neutral, setting parking brake, stopping engine and removing key.
20. Do not stop or start suddenly when going uphill or downhill. Mow up and down face of steep slopes; never across the face.
21. Reduce speed on slopes and in sharp turns to prevent tipping or loss of control. Always keep the tractor in gear when going down steep hills to take advantage of engine braking action.
22. Stay alert for holes in terrain and other hidden hazards.
23. Use care when pulling loads or using heavy equipment.
 - A. Use only approved drawbar hitch points.
 - B. Limit loads to those you can safely control.
 - C. Do not turn sharply. Use care when backing.
 - D. Use counterweight(s) or wheel weights when suggested in owner's manual.
24. Watch out for traffic when crossing or near roadways.
25. When using any attachments, never direct discharge of material toward bystanders nor allow anyone near vehicle while in operation.
26. Handle gasoline with care. It is highly flammable.
 - A. Use approved gasoline container.
 - B. Never remove cap or add gasoline to a running or hot engine or fill fuel tank indoors. Wipe up spilled gasoline.
 - C. Open doors if engine is run in garage. Exhaust fumes are dangerous. Do not run engine indoors.
27. Keep the vehicle and attachments in good operating condition, and keep safety devices in place. Use guards as instructed in owner's manual.
28. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.

29. Never store the equipment with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow engine to cool before storing in any enclosure.
30. To reduce fire hazard, keep engine free of grass, leaves or excessive grease.
31. The vehicle and attachments should be stopped and inspected for damage after striking a foreign object. The damage should be repaired before restarting and operating the equipment.
32. Do not change the engine governor settings or overspeed the engine.
33. When using the vehicle with mower, proceed as follows:
 - (1) Mow only in daylight or in good artificial light.
 - (2) Never make a cutting height adjustment while engine is running if operator must dismount to do so.
 - (3) Shut the engine off and wait until the blade comes to a complete stop before removing the grass catcher.
 - (4) Check blade mounting bolts for proper tightness at frequent intervals.
34. Check grass catcher bags frequently for wear or deterioration. For safety protection, replace only with new bag meeting original equipment specifications.
35. Look behind to make sure the area is clear before placing the transmission in reverse and continue looking behind while backing up.

KNOW YOUR TRACTOR



ASSEMBLY



NOTE

This unit is shipped WITHOUT GASOLINE or OIL. After assembly, see separate engine manual for proper fuel and engine oil recommendations.

The lawn tractor is packed and shipped in one container and is fully assembled except for the steering wheel, seat and battery.

BATTERY INFORMATION



WARNING

- A. Battery acid must be handled with great care as contact with it can burn and blister the skin. It is also advisable to wear protective clothing (goggles, rubber gloves and apron) when working with it.*
- B. Should battery acid accidentally splatter into the eyes or onto the face, rinse the affected area immediately with clean cold water. If there is any further discomfort, seek prompt medical attention.
- C. If acid spills on clothing, first dilute it with clean water, then neutralize with a solution of ammonia/water or baking soda/water.
- D. Since battery acid is corrosive, do not pour it into any sink or drain. Before discarding empty electrolyte containers, rinse them with a neutralizing solution.
- E. NEVER connect or disconnect charger clips to battery while charger is turned on as it can cause sparks.
- F. Keep all lighted materials (cigarettes, matches, lighters) away from the battery as the hydrogen gas generated during charging can be combustible.
- G. As a further precaution, only charge the battery in a well-ventilated area.

***Always shield eyes, protect skin and clothing when working near batteries.**



DANGER

BATTERIES CONTAIN SULFURIC ACID AND MAY CONTAIN EXPLOSIVE GASSES (when electrolyte has been added).

KEEP BATTERIES OUT OF THE REACH OF CHILDREN.

ACTIVATING THE BATTERY



NOTE

If your battery is activated (electrolyte in the battery) and installed in the tractor, go directly to step 9.

1. Place the battery to be filled on a workbench. Never activate a battery in the unit.
2. Slip one end of the battery drain tube on the battery manifold.
3. Remove the fill caps from all cells.
4. Fill each cell carefully using 1.265 specific gravity electrolyte. Fill each cell to the top of the separators. Do not overfill.
5. Let the battery sit for 20 minutes for the chemical reaction to take place.
6. Charge the battery at a MAXIMUM RATE OF 5 AMPS. until the specific gravity reads 1.265. Use a hydrometer to check the specific gravity.



CAUTION

An excessive rate of charge will damage the battery.

7. Check the level of electrolyte. Adjust level to bottom of split ring if necessary with electrolyte.
8. Replace fill caps.



CAUTION

Once the battery has been activated, never add anything except distilled water or a good grade of drinking water.

9. If your battery has been installed in your unit at the factory:
 - A. Use a hydrometer to check the specific gravity. The specific gravity should be 1.265 at 80° F.
 - B. If it is less, remove the fill caps and use a battery charger to bring the specific gravity up to 1.265. NEVER CHARGE AT MORE THAN 5 AMPS.
 - C. Replace the fill caps.
 - D. The positive cable has been attached to the factory. You only have to attach the negative (Neg. N or-) terminal of the battery with a hex head bolt, lock washer and nut.

INSTALLING THE BATTERY



NOTE

The positive battery terminal is marked Pos. (+). The negative battery terminal is marked Neg. (-).

1. Place the battery in the battery box with the terminals towards the rear of the tractor.
2. Secure the battery with the two hold down rods, battery hold down, lock washers and wing nuts. See figure 1.

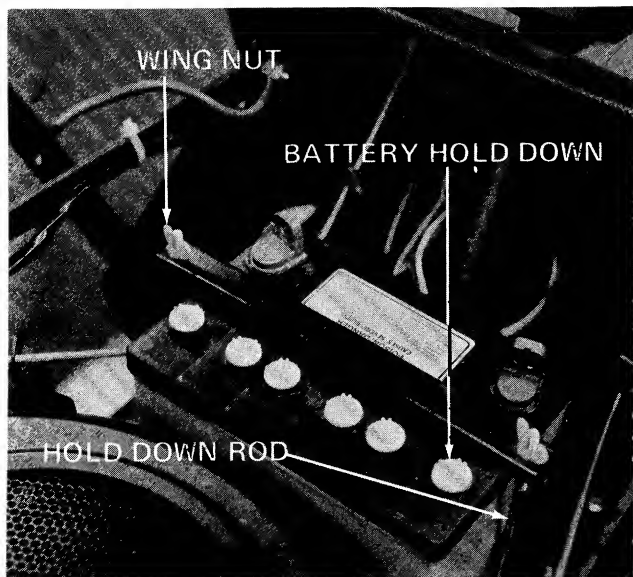


FIGURE 1

3. Attach the positive cable (from the starter solenoid) and the small wire (from the circuit breaker) to the positive battery terminal (+) with a 1/4-20 x 3/4" long bolt, lock washer and hex nut.
4. Attach the negative cable (grounded) to the negative battery terminal (-) with the other 1/4-20 x 3/4" long bolt, lock washer and hex nut.

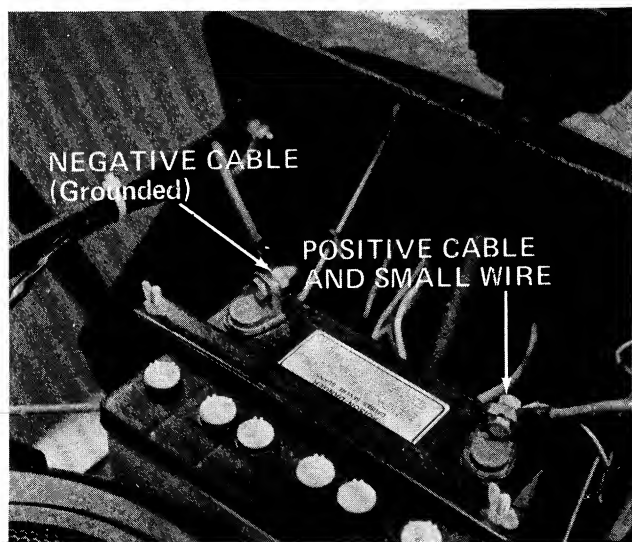


FIGURE 2



The vented battery allows any gases or liquid from the battery to be carried to the rear of the tractor and on to the ground.

5. Route the rubber drain tube down beside the oil drain pipe on the right side of the tractor.

11 H.P. tractor - Secure battery drain tube to oil drain pipe with plastic tie provided. Cut off excess end of plastic tie.

16 H.P. tractor - Slip the end of the drain tube into the mounting clamp provided in hardware pack. Secure the mounting clamp to the tractor frame by placing the clamp over the hex bolt and nut which hold the engine pulley belt guard to the frame. Secure in place with hex lock nut provided in hardware pack. See reference numbers 36 and 45 on page 30.

SEAT ASSEMBLY

The seat can be adjusted to four positions. With the seat tipped forward, hook the front of the seat spring into the slots on the tractor frame. Allow the seat to pivot backwards until it rests on the rear of the springs. See figure 3.

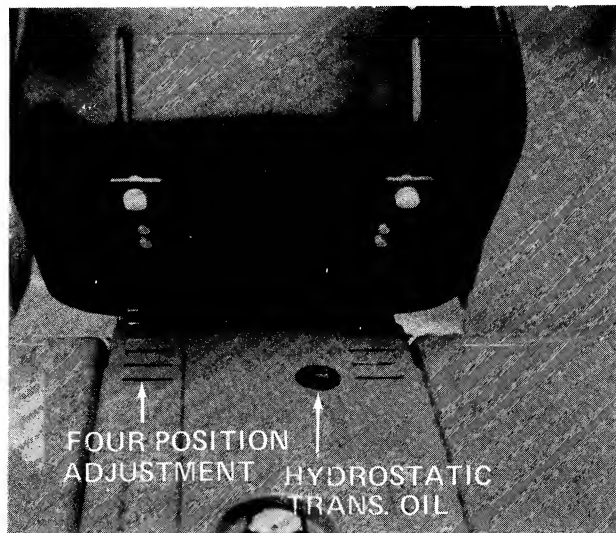


FIGURE 3

STEERING WHEEL

1. Place the steering wheel over the steering column extending through the dash. Line up the flats on the steering column with the flats in the steering wheel. See figure 4.

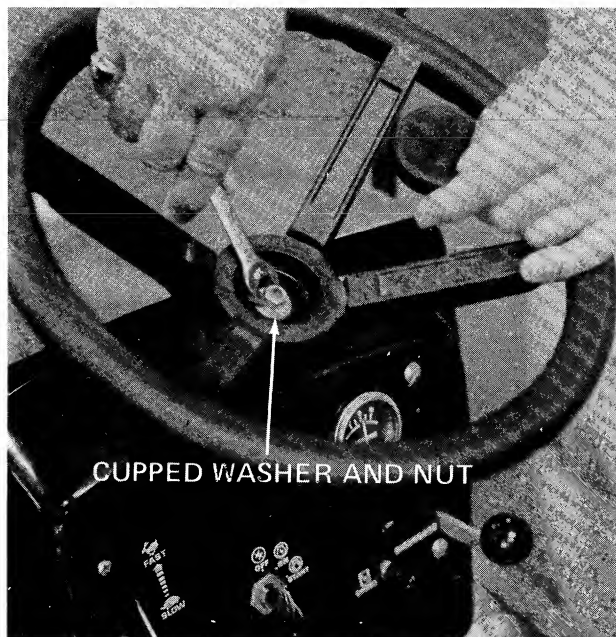


FIGURE 4

2. Place the washer with the cupped side down over the steering column and secure with a hex nut 5/16".
3. Place the cap over the center of the steering wheel and seat it with your hand.

TIRE PRESSURE

The tires have been over-inflated for shipping. Reduce the rear wheel tire pressure to 15 p.s.i. for operation. Equal tire pressure should be maintained on all tires. Maximum tire pressure is 30 p.s.i.

HYDROSTATIC TRANSMISSION

See the maintenance section of this manual for correct lubrication and level for the oil in the hydrostatic transmission.

CONTROLS

Ignition Switch

The ignition switch is located in the center of the dashboard. Turn the key to the START position to start the engine. When the engine is running, leave the key in the ON position. To stop the engine, turn the key to the OFF position. See figure 5.



Remove the key from the tractor when the tractor is not in use to prevent accidental starting.

Throttle Control

The throttle control is located on the left side of the dashboard and is used to regulate the engine speed. See figure 5. The engine should be operated from 3/4 to full throttle (FAST) when operating any equipment that uses the tractor engine as a source of power such as the mowing deck, snow thrower or rotary tiller. See figure 5.

Choke Control (Models 784 and 786 only)

The choke control is located on the right side of the dashboard and is operated manually. Details for the choke operation are covered in the Engine Operating and Maintenance Instructions Manual. See figure 5.

Light Switch

The head lamps are operated by pushing the light switch located on the dashboard. The head lamps will only operate when the engine is running. See figure 5.

Ammeter

The ammeter registers the rate of battery charge or discharge. The ammeter should register on the plus (+) side when the engine is running in the FAST position until the battery is completely charged.

With a fully charged battery or with the engine idling, the ammeter may not show a charge.

The maximum charging rate is 3 amps. The head lamps operate directly from the engine alternator and do not register on the ammeter. See figure 5.

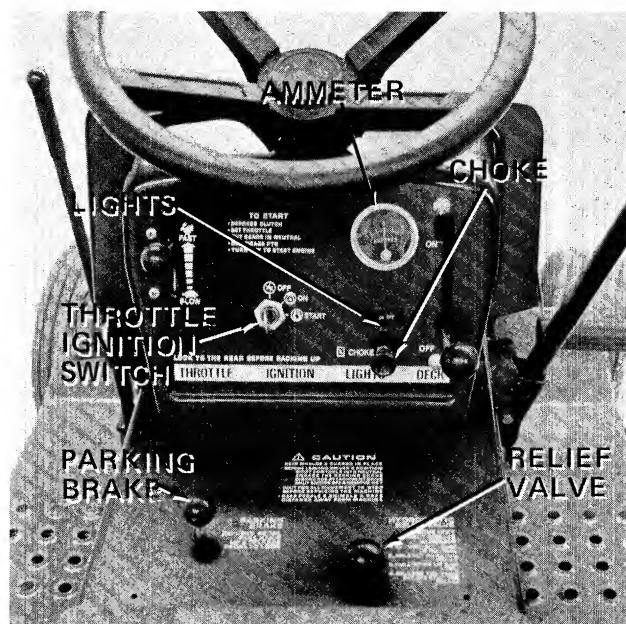


FIGURE 5

Gasoline Tank (Model 760)

The gasoline tank is located on the engine. Raise the hood forward to fill the tank.

Gasoline Tank (Models 784 thru 786)

The gasoline tank is located under the tractor seat. Tip the seat forward to fill the tank. See figure 6.

Hydrostatic Control Lever

A single control lever connected to the hydrostatic transmission controls both the speed and direction of the tractor. Infinite speed control is achieved by moving the control lever forward or backward. The farther forward or backward you move the control lever, the faster you will travel. Pulling the control lever into neutral (N) area will stop the tractor. To increase rear wheel torque (pulling power), move the control lever towards neutral (N) position. The lawn tractor responds similar to shifting to a lower gear with a gear type transmission. See figure 6.



FIGURE 6

Clutch-Brake Pedal

The clutch-brake pedal is located on the right side of the lawn tractor. Depressing the pedal disengages the engine from the hydrostatic transmission and applies the brake. You can release the clutch pedal and resume the same speed without moving the hydrostatic control lever. See figure 7.

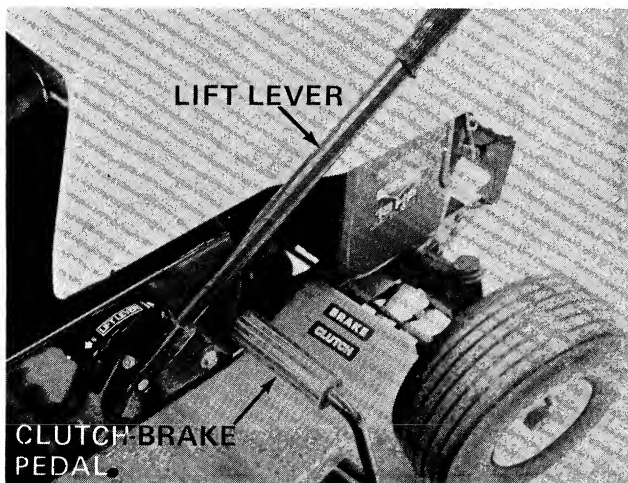


FIGURE 7



The clutch-brake pedal must be depressed to start the engine.

Parking Brake

To set the parking brake, depress the clutch-brake pedal and pull up the parking brake knob. It will stay in the raised position. To release the parking brake, depress and release the clutch-brake pedal. See figures 5 and 7.

Lift Lever

The five position lift lever is used to change the operating position of the attachments. To operate, pull the lever towards you. To release, move the lever to the right and then forward. See figure 7.

Power Take Off (PTO) Lever

The PTO lever is located on the right side of the dashboard. To engage the PTO, lift the lever slowly and lock it into the notch. See figure 8.



The PTO lever must be in the disengaged position (down) when starting the engine and when shifting into reverse.

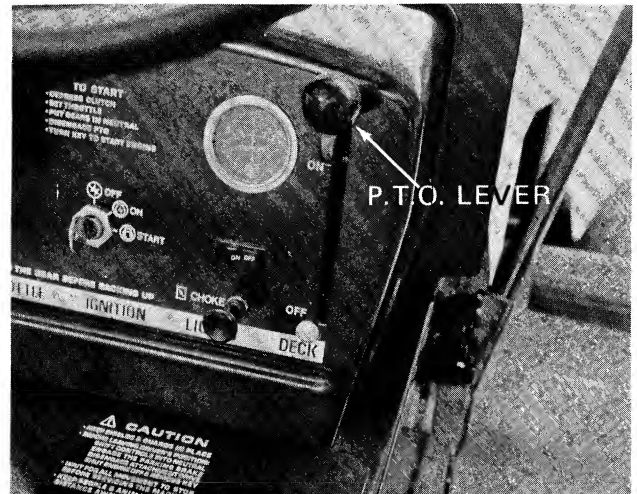


FIGURE 8

Relief Valve

To move the lawn tractor without the engine running, pull up the relief valve and lock it in the raised position. This allows the rear wheels to roll. See figure 5.

OPERATION



1. Keep all shields in place.
2. Before leaving operator's position:
 - a. Shift transmission to neutral
 - b. Set parking brake
 - c. Disengage attachment clutch
 - d. Shut off engine
 - e. Remove ignition key
3. Wait for all movement to stop before servicing machine.
4. Keep people and pets a safe distance away from machine.
5. Look to the rear before backing up.



PREPARATION



NOTE

When packaged for shipment, the machine contains no oil or gasoline. Before starting the engine, oil must be added to the engine crankcase and gasoline to the tank. **DO NOT** mix oil with gasoline.

1. Put oil in engine crankcase. Refer to separate engine manual packed with your unit for engine oil recommendations. Nothing should be added to the recommended oil.

Place the engine level. Fill the oil sump to the **FULL** mark on the dipstick. Pour slowly.

2. Fill the gasoline tank with clean, fresh, leaded **regular** grade automotive gasoline.
3. Check the oil level in the hydrostatic transmission. Refer to Maintenance Section on page 11.

OPERATING THE LAWN TRACTOR



NOTE

This unit is equipped with a safety interlock system for your protection. The purpose of the safety interlock system is to prevent the engine from cranking or starting unless the clutch-brake pedal is depressed and the P.T.O. lever is in the disengaged position. In addition, the P.T.O. lever must be in the disengaged position when the unit is put into reverse or the engine will shut off.



Do not operate the tractor if the interlock system is malfunctioning because it is a safety device, designed for protection.

1. Place the PTO lever in the disengaged position (down).

2. Depress the clutch-brake pedal and set the parking brake.
3. Place the hydrostatic control lever in the "NETURAL" (N) position.
4. Set the throttle control in the "FAST" position.
5. **Models 784 and 786 only**—Pull out the choke control. A warm engine requires less choking.
6. Turn the ignition key to the right to the "START" position. After the engine starts, release the key. It will return to the "ON" position.
7. **Models 784 and 786 only**—Slowly push in the choke as the engine warms up.
8. Depress the clutch-brake pedal so the parking brake is released and then release the clutch-brake pedal.
9. Move the hydrostatic control lever forward. The farther forward you move the hydrostatic control lever, the faster you will travel.
10. To stop the tractor, pull the hydrostatic control lever into "NEUTRAL" (N) or depress the clutch-brake pedal.
11. To shut off the engine, turn the ignition key to "OFF" position.



NOTE

If you strike a foreign object, stop the engine. Remove wire from spark plug, thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower.

ADJUSTMENTS



IMPORTANT

Disconnect the spark plug wire and ground against the engine before performing any adjustments, repairs or maintenance.

SEAT ADJUSTMENT

The tractor seat is adjustable to four positions. To change positions, tip the seat all the way forward and lift it out of the slots on each side. Refer to figure 3.

HYDROSTATIC CONTROL ADJUSTMENT

The hydrostatic transmission control is in correct adjustment when the tractor does not move with the engine running, the clutch engaged and the hydrostatic control lever in the neutral position.

If adjustment is necessary, follow these steps:

1. Raise both rear wheels off the ground by placing blocks under the rear frame.

2. Loosen both lock nuts on both ends of the connecting rod. See figure 9.
3. Place the hydrostatic control lever in the neutral position. See figure 6.
4. Start the tractor.
5. Release the clutch/brake pedal.



DO NOT set the parking brake or the dump valve.



Be careful of the cooling fan on the front of the hydrostatic transmission.

6. Turn the connecting rod back and forth until the rear wheels do not rotate.
7. Shut off the engine.
8. Tighten both lock nuts on the connecting rod.
9. Remove the blocks under the tractor frame and test the tractor operation.

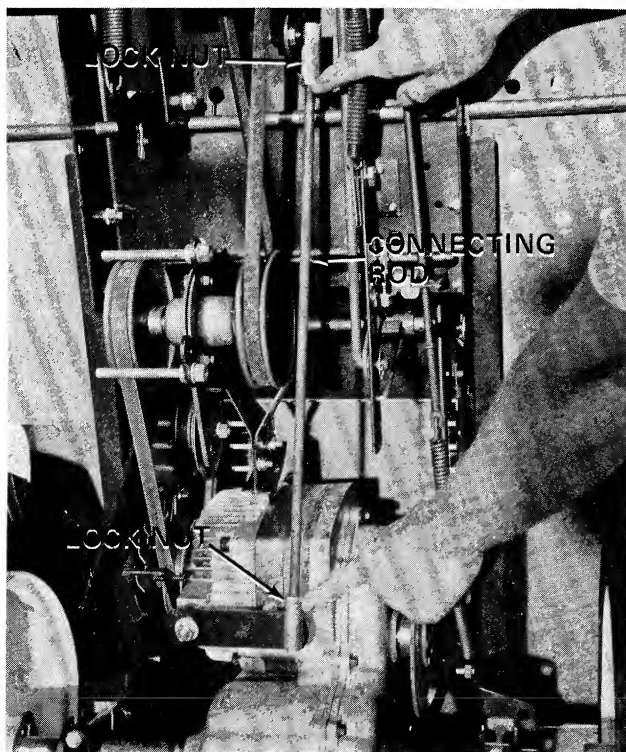


FIGURE 9

BRAKE ADJUSTMENT

During normal operation of this machine, the brakes are subject to wear and will require periodic examination and adjustment.



DO NOT adjust the brake while the engine is running. Be sure to block the wheels of the tractor before making the brake adjustment.

1. Loosen the lock nut. See figure 10.
2. Tighten the center bolt all the way in.
3. Unscrew the center bolt one complete turn.

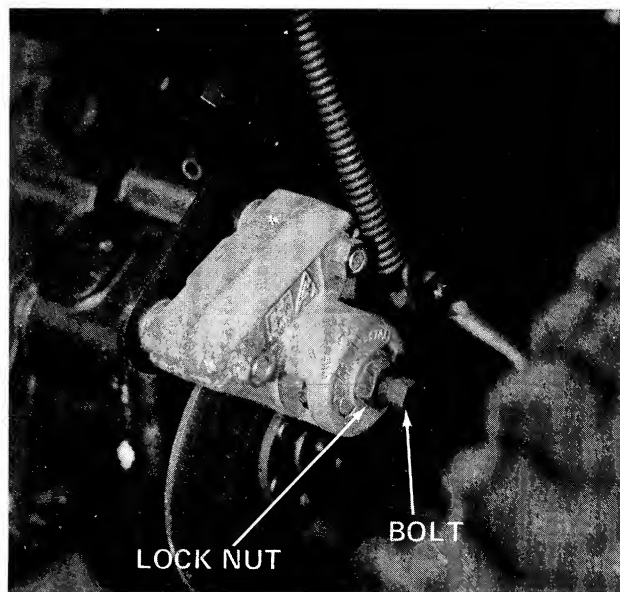


FIGURE 10

4. Test the brakes and repeat step three if necessary.
5. Tighten the lock nut.

REAR WHEEL TRACK ADJUSTMENT

The distance between the rear wheels can be changed from wide to narrow by removing the rear wheels one at a time and reversing them on the hub.

With the rear wheels in the narrow position, their outside is even with the outside of the front wheels.

With the rear wheels in the wide position, their inside is even with the outside of the front wheels.

CARBURETOR ADJUSTMENTS



If any adjustments are made to the engine while the engine is running (e.g. carburetor), disengage all clutches and blades. Keep clear of all moving parts. Be careful of heated surfaces and muffler.

Minor carburetor adjustments may be required to compensate for differences in fuel, temperature, altitude and load.

Refer to the separate engine manual packed with your lawn tractor for carburetor adjustment information.

MAINTENANCE



WARNING

Disconnect the spark plug wire and ground against the engine before performing any adjustments, repairs or maintenance.

TROUBLESHOOTING

Refer to the chart on page 18 for troubleshooting engine problems.

CRANKCASE OIL

To ensure maximum engine performance, perform the following periodic maintenance:

Check the oil level in the crankcase before each use of the machine and after every two hours of operation. Keep the oil level between ADD and FULL. See figure 11.

After the first two hours of operating a new engine, drain the oil (see figure 11), from the crankcase while engine is still hot and refill crankcase with new oil; thereafter change the oil after every 25 hours of operation. This procedure ensures minimum wear of engine parts. To change the oil, proceed as follows:

- Step 1. Remove oil filler plug.
- Step 2. Drain the oil.
- Step 3. Replace oil filler plug.
- Step 4. Refill crankcase with oil. Refer to engine manual for quantity and type of oil.



FIGURE 11

HYDROSTATIC OIL LEVEL (Models 784 and 786 shown)

The transmission has been filled at the factory and should not require changing for the life of the transmission. The following oils can be used.

Texaco 2209
General Motors Dexron B
Ford M2C-33F
Mobil Fluid 300
or a good quality SAE 20 High Detergent oil



CAUTION

Never use a multi-viscosity oil.

The transmission fluid level should be checked prior to initial use. The level should not be above the COLD mark which is about 1/4" from the bottom of the reservoir/expansion tank. See figure 12.



CAUTION

Overfilling reduces the expansion area in the reservoir/expansion tank and fluid will spill at operating temperatures.

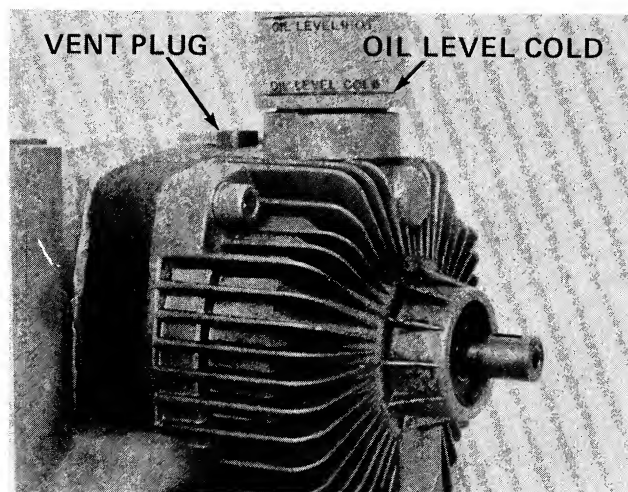


FIGURE 12

To check or add fluid to the transmission:

1. Unscrew the parking brake and relief valve knobs. See figure 5.
2. Unscrew the two screws holding the access cover located in front of the seat.
3. Check the oil level in the reservoir/expansion tank. See figure 12.
4. If it is necessary to add oil, unscrew the cap on the reservoir/expansion tank and add oil through the hole with a funnel. Do not overfill. See figure 13.
5. Reassemble parts.

If frequent additions are required, locate the leak and correct. Inadequate supply of fluid may result in permanent internal damage.

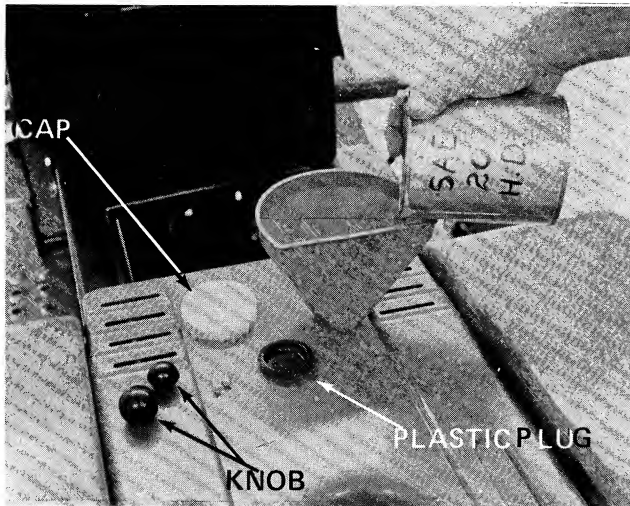


FIGURE 13

If contaminate is observed on the reservoir/expansion tank screen, poor maintenance is indicated. Remove the reservoir/expansion tank, wash clean, dry and reinstall. If the screen is pierced, the reservoir/expansion tank should be replaced.



CAUTION

The threads on the reservoir/expansion tank are left hand thread.

If the natural color of the transmission fluid has changed, black or milky, overheating and/or water contaminate is indicated. The fluid should be drained and replaced with new transmission fluid.

To drain the hydrostatic transmission, remove the hex plug on the bottom of the hydrostatic transmission.

To fill the hydrostatic transmission, remove the vent plug located next to reservoir/expansion tank to prevent an air lock. Replace vent plug.

Hydrostatic Transmission Cooling.

The hydrostatic transmission is cooled by the oil, fan and fins. Normal operating temperature is 180°F. If the hydrostatic transmission runs hot, check to see if the fan is in operating condition, the oil level is correct and the fins are clean.



CAUTION

DO NOT use high pressure water spray or steam to clean the hydrostatic transmission.

TRANSAXLE LUBRICATION

Check the oil level four times a year. Lubricant should be at the point of overflowing. Use SAE E.P. 90 oil. Drain and refill every two years. Capacity 2-3/4 pints. See figure 14.

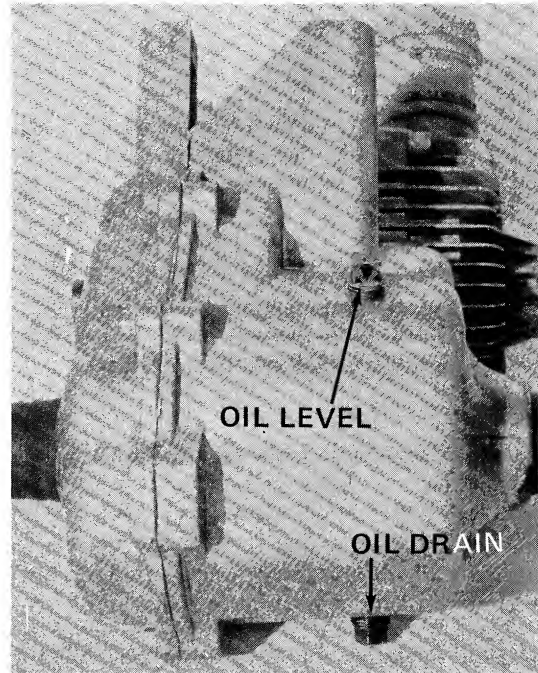


FIGURE 14

STEERING GEARS

Wipe off the old grease and dirt. After every 25 hours of operation, place an automotive multi-purpose grease in the teeth of the segment and pinion gears. See figure 15.

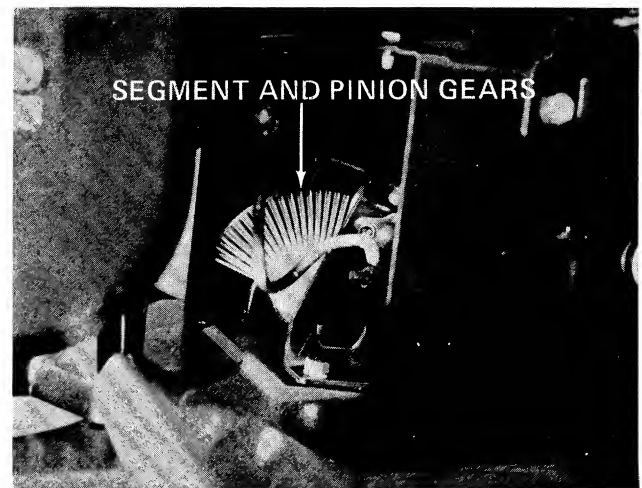


FIGURE 15

LINKAGE—Once a season, lubricate all the pivot points on the clutch, brake and lift linkage with SAE 30 engine oil.

WHEEL BEARINGS—The front wheel bearings and king pin bearings have Oilon PV 80 bearings that require no lubrication.

BALL JOINTS—The ball joints and drag link ends are permanently lubricated.

FUEL SHUT-OFF VALVE AND FILTER (Models 784 and 786 only)

The valve and filter is located on the bottom of the gasoline tank located at the extreme rear of the tractor.

Turn the valve knob in to shut off the fuel flow. Turn the valve knob out to operate the tractor. See figure 16.

The entire valve can be pulled out to clean the filter. When reassembling, place the rubber grommet into the gasoline tank first, then push the valve all the way in.



Only use factory approved parts if repairs are needed on the gasoline tank, grommet, valve or gasoline line.

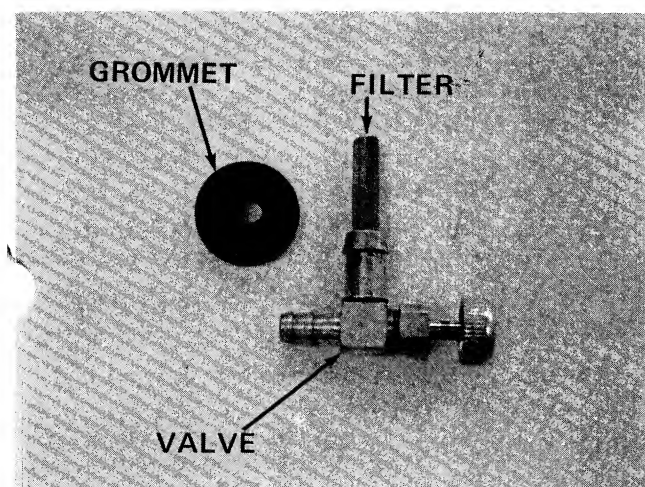


FIGURE 16

WHEEL ALIGNMENT

The front wheels should toe-in approximately 1/8". Measure the distances A and B on the front wheels. See figure 17.



Dimension B should be approximately 1/8 inch less than dimension A.

To adjust the toe-in, loosen the hex jam nut, remove the elastic locknut, lift the tie rod end out of the hole in the steering arm and screw the tie rod end in or out as necessary.

Reassemble the tie rod end after the correct alignment is made.

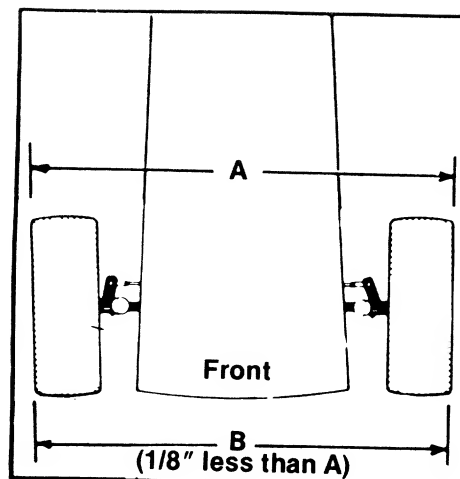


FIGURE 17.

DRAG LINK (See Figure 18)

If the drag link or ball joints are changed, the new assembly must be adjusted to the exact same length as the original. If adjusted incorrectly, it will allow the tractor to turn sharper one direction than the other.

To take off the drag link, remove the nuts and lock washers holding the ball joint to the steering gear and left front axle bracket.

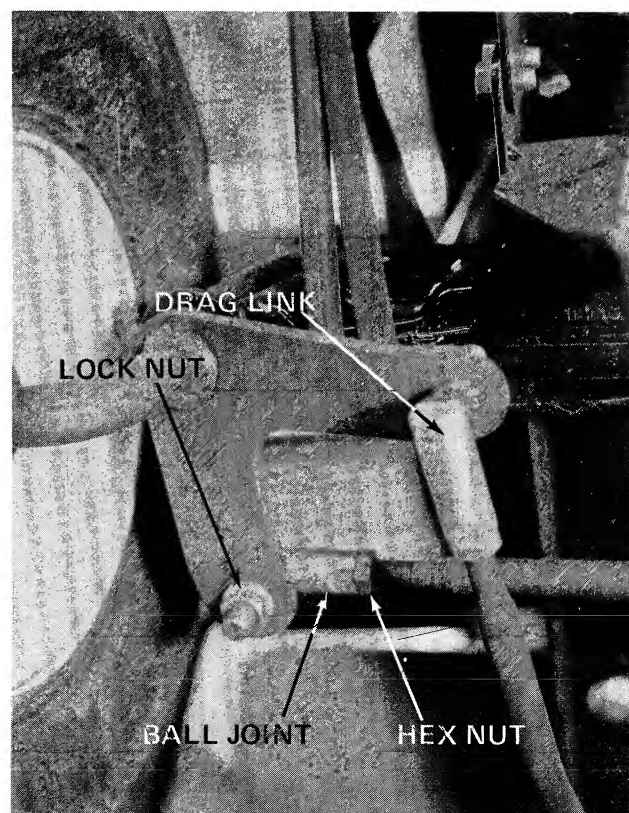


FIGURE 18

ENGINE

Refer to separate engine manual for all engine maintenance procedures.

MAINTENANCE OF BATTERY

1. Check electrolyte level periodically (at least every two weeks). Keep the level to the split rings. Use only distilled water or a good quality drinking water. Never add acid or any other chemicals to the battery after initial activation.
2. The battery should be checked with a hydrometer after every 25 hours of operation. If the specific gravity is less than 1.225, the battery should be recharged. Maximum charge rate 5 amps.
3. Coat the terminals and exposed wire with a thin coat of grease or petroleum jelly for longer service and protection against corrosion.
4. The battery should be kept clean. Any deposits of acid should be neutralized with soda and water. Be careful not to get this solution in the cells.
5. Avoid tipping the battery. Even a "sealed" battery will leak electrolyte when tipped.

STORAGE OF THE BATTERY

1. When storing battery for extended periods, disconnect battery cables. Removing battery from unit is recommended.
2. Keep the exterior of the battery clean, especially the top. A dirty battery will discharge itself.
3. Check the battery with a hydrometer. The battery must be stored with a full charge. A discharged battery will freeze.

Specific Gravity	Freezing Point
1.265	- 71°F.
1.250	- 62°F.
1.200	- 16°F.
1.150	5°F.
1.100	16°F.



All batteries discharge during storage.

4. Recharge battery whenever the specific gravity is less than 1.225, before returning to service or every two months, whichever comes first.

COMMON CAUSES FOR BATTERY FAILURE

1. Overcharging
2. Undercharging
3. Lack of water
4. Loose hold downs and/or corroded connections.
5. Excessive loads
6. Battery electrolyte substitutes
7. Freezing of electrolyte



These failures do not constitute warranty.

BATTERY REMOVAL OR INSTALLATION



When removing the battery follow this order of disassembly to prevent your wrench from shorting against the frame.

1. Remove the Negative cable.
2. Remove the Positive cable.

To install a battery:

1. Attach the Positive cable.
2. Attach the Negative cable.

JUMP STARTING

1. Attach the first jumper cable from the Positive terminal of the good battery to the Positive terminal of the dead battery.
2. Attach the second jumper cable from the Negative terminal of the good battery to the FRAME OF THE UNIT WITH THE DEAD BATTERY.



Failure to use this starting procedure could cause sparking and the gases in either battery could explode.

INSTALLATION OF TIRE TO RIM



The following procedure must be followed when removing or installing a tire to the rim.

1. Lubricate the tire beads and rim flanges.
2. Do not exceed 30 p.s.i. when seating beads.
3. Adjust to recommended pressure after beads are sealed.

BELT REMOVAL AND REPLACEMENT Changing the Front Drive Belt

1. Remove the cutting deck (if one is attached) and battery.
2. Raise and block the front wheels of the tractor so you can work under it.
3. Unscrew the belt guard release next to the engine pulley. See figure 19.

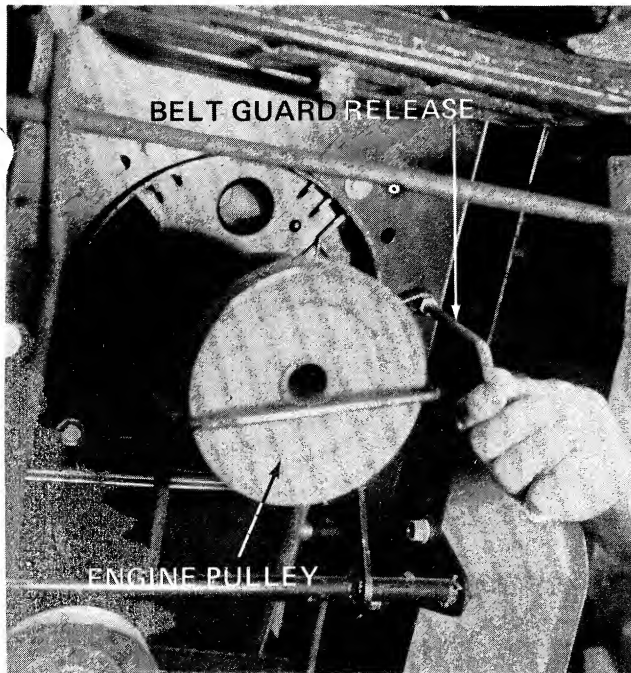


FIGURE 19

4. Swing the belt guard forward towards the front of the tractor. See figure 20.

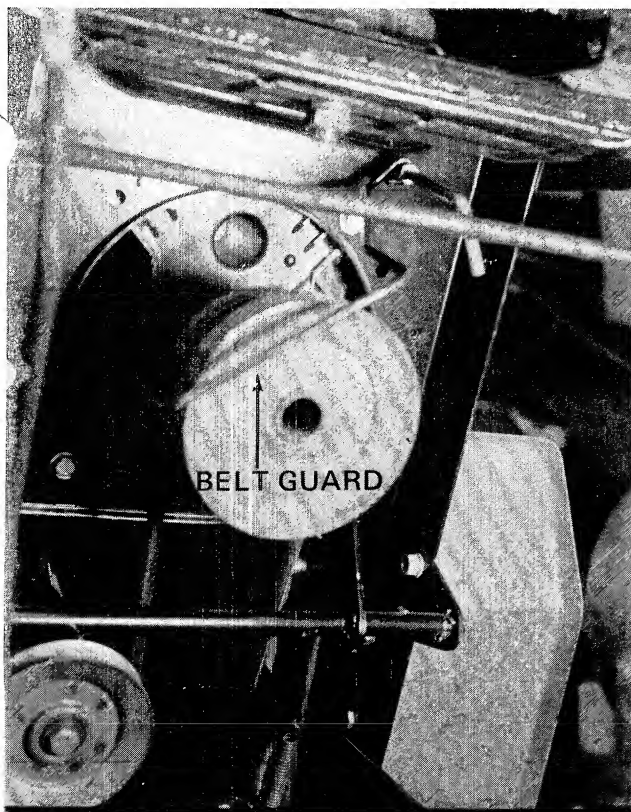


FIGURE 20



WARNING

Observe the way the belt is twisted. If the new belt is installed backwards, the tractor will run backwards.

5. Loosen the stop bolt behind the pulley assembly so the pulley assembly will pivot forward enough to remove the V-belt.
6. Using a bar or large screwdriver, pry the pulley assembly towards the front of the tractor and unhook the belt from the pulley. See figure 21.
7. Install the new belt by hooking it over the engine pulley and twisting the belt to the left as you attach it to the pulley.
8. Test the operation of the tractor to assure the belt has been installed correctly.

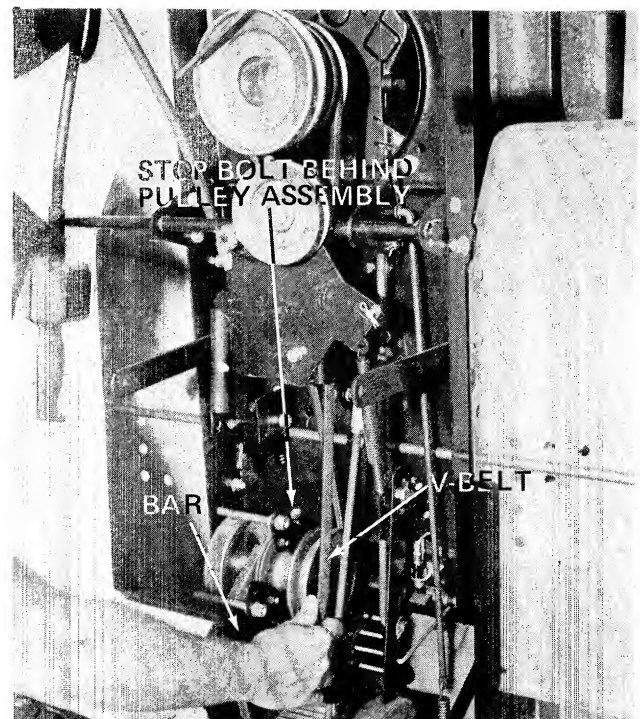


FIGURE 21

Removing the Rear (Clutch) Belt

1. Remove the cutting deck (if one is attached) and battery.
2. Raise and block the front wheels of the tractor so you can work under it.
3. Depress the clutch-brake pedal and set the parking brake.
4. Remove the two belt guard pins on the pulley assembly. See figure 22.

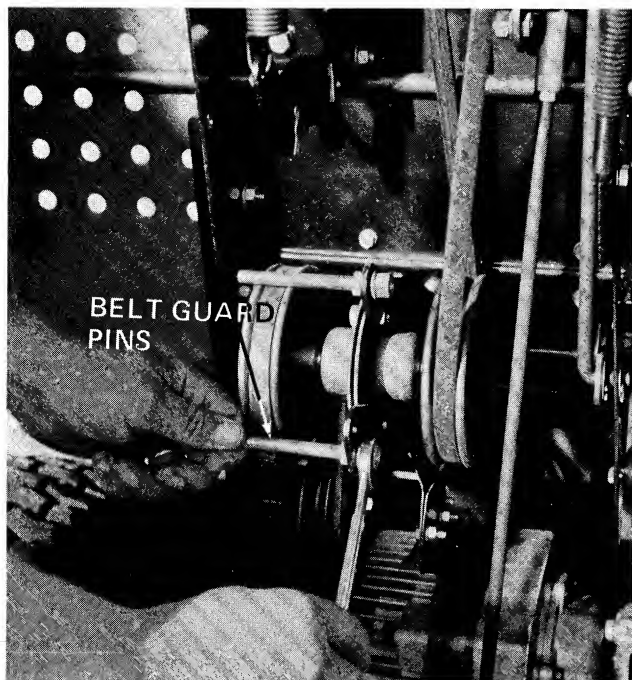


FIGURE 22

5. Take off the idler assembly by removing the center bolt.



NOTE

Be sure the belt clip is reassembled the same way. See figure 23.

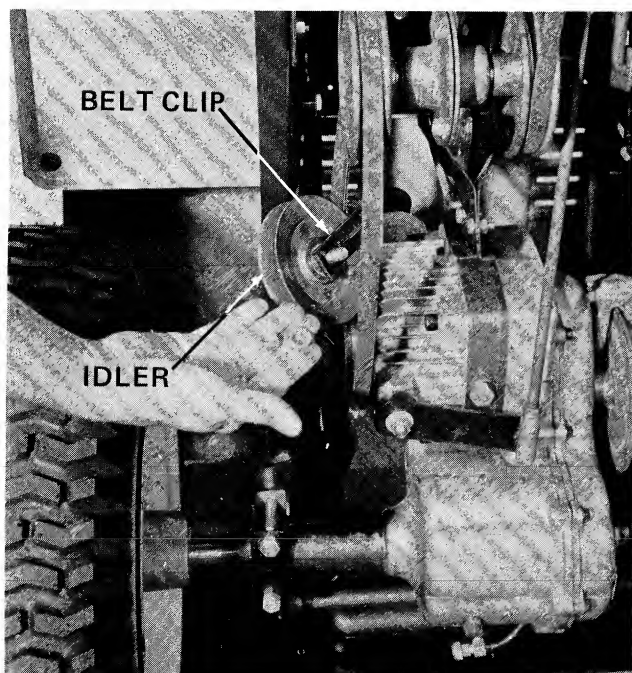


FIGURE 23

6. Take off the round wire belt guard around the hydrostatic pulley by removing the two screws through the frame.
7. Loosen the frame bolt holding the rear axle bracket to the frame. See figure 24.

8. Pry the frame over about 1/4" and remove the V-belt.
9. Reassemble in reverse order with a new V-belt.

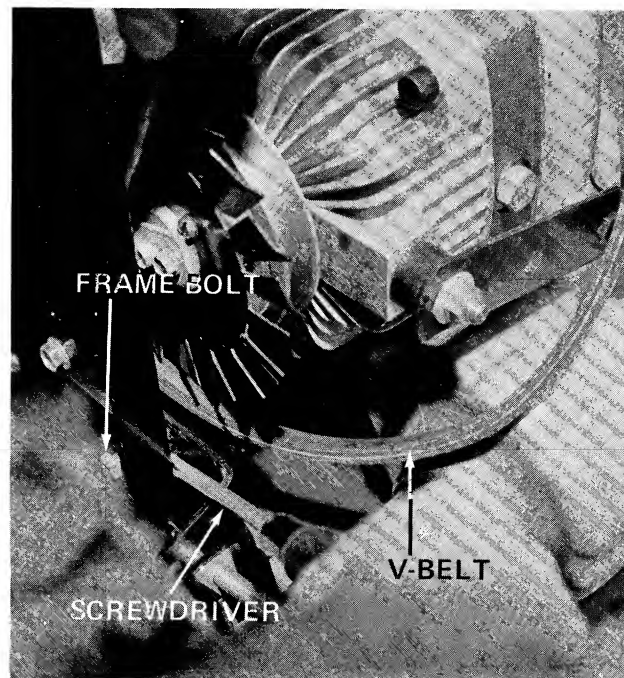


FIGURE 24

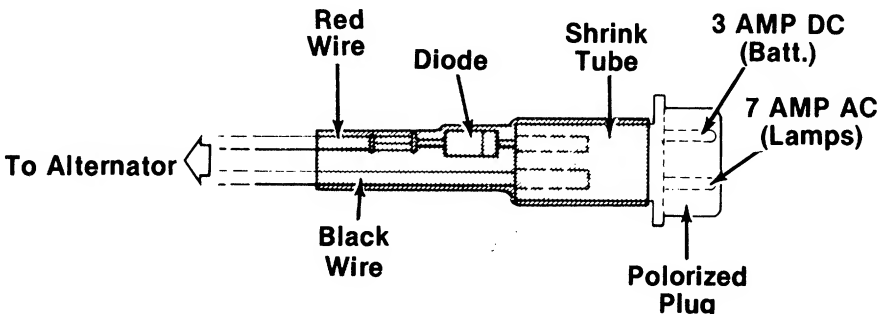
OFF-SEASON STORAGE

If the machine is to be inoperative for a period longer than 30 days, the following procedures are recommended:

1. Working outdoors, drain all fuel from the fuel tank. Use a clean dry cloth to absorb the small amount of fuel remaining in the tank, then run the engine until all fuel in the carburetor is exhausted.
2. Drain all the oil from the crankcase (this should be done after the engine has been operated and is still warm) and refill the crankcase with clean new oil.
3. Disconnect the spark plug wires and remove the spark plugs from the cylinders. Pour about 2 or 3 tablespoons of engine oil into each cylinder, and then turn the engine over several times to spread out the oil. Replace the spark plugs but do not connect the wires.
4. Clean the engine and the entire tractor thoroughly.
5. Lubricate all lubrication points and wipe the entire machine with an oiled rag in order to protect the surfaces.
6. Battery storage. See page 14.

NOTES

TROUBLE SHOOTING CHART FOR ELECTRIC START MODELS

TROUBLE	LOOK FOR	REMEDY
Engine will not crank	Battery installed incorrectly	The battery must be installed with the negative, identified at the terminal post by (Neg, N or -), grounded. The positive (Pos, P or +) attaches to the large cable from the solenoid. The small red wire from the fuse holder or circuit breaker is also attached to the positive terminal.
	Blow fuse or circuit breaker	Replace fuse with 7½ amp. fuse ¼ x 1¼" lg. Circuit breaker will reset itself when it cools off. Fuses or circuit breakers seldom open or fail without a reason. The problem must be corrected. Check for loose connections in the fuse holder. Replace fuse holder if necessary. A dead short may be in the cranking or charging circuit where the insulation may have rubbed through and exposed the bare wire. Replace the wire or repair with electrician's tape if the wire strands have not been damaged. Note: Look for a wire pinched between body panels, burned by the exhaust pipe or muffler or rubbed against a moving part.
	Battery is dead or weak	<p>Use a hydrometer to check the condition of the battery. The Specific Gravity (s.g.) should be 1.265 at 80°F. (1.215 s.g. minimum needed for cranking engine). The reason for the battery failing must be determined. (1) Defective battery. Battery will not accept or hold a full charge. (2) Short circuit. Check for grounded wire. (3) Charging system not working.</p> <p>Alternator. The charging system is an alternator located under the flywheel. It is unregulated and rated 3 amp. at 3600 r.p.m. A diode (rectifier) is located in the output lead just before the wire harness plug on the engine side.</p> <div style="text-align: center;">  </div> <p>The diode changes A.C. to D.C. to charge the battery. A bad diode can either fail to charge the battery or discharge the battery if the alternator is shorted as well as the diode. To test: (1) Disconnect charger lead from the battery (small red wire). (2) Connect 12 V small test lamp between the 3 amp. D.C. charge lead and the positive terminal of the battery. (3) With the engine off, the lamp should not light. If it does, the diode and possibly the alternator should be replaced. (4) Start the engine. The lamp should light. If it does not, the alternator (stator) or lead wire is bad and should be replaced.</p>
	Mechanical failure. (Wires and switches)	The interlock system includes two mechanical activated switches which are wired in series in the circuit used to energize the starter solenoid. While testing the interlock system, you will make the mower temporarily unsafe by permitting the engine to be started with the blade and clutch engaged. WARNING: While testing, disengage the clutch, shut off the blade control, set the parking brake and place the gear shift lever in neutral. Attach a wire (minimum 18 gauge) to the positive terminal of the battery and touch the other end to the small terminal on the solenoid. If the engine does not crank: (1) There is a loose connection or poor ground. (2) The solenoid may be bad. The solenoid can be checked by using a heavy wire (#8 gauge minimum) and jumping between the two large terminals. If the engine cranks, the solenoid is bad. (3) If the engine does not crank when you jump the solenoid, have the starter motor tested by an authorized engine dealer. If the engine does crank, the problem is with one of the safety switches, ignition switch or the wire between the fuse holder (or circuit breaker) and the small terminal on the solenoid. Note: Look for a poor connection at the switches or a defective switch. Replace if necessary.
Engine cranks but will not start	Throttle or choke not in starting position	Check owner's guide for correct position for throttle control and choke for starting.

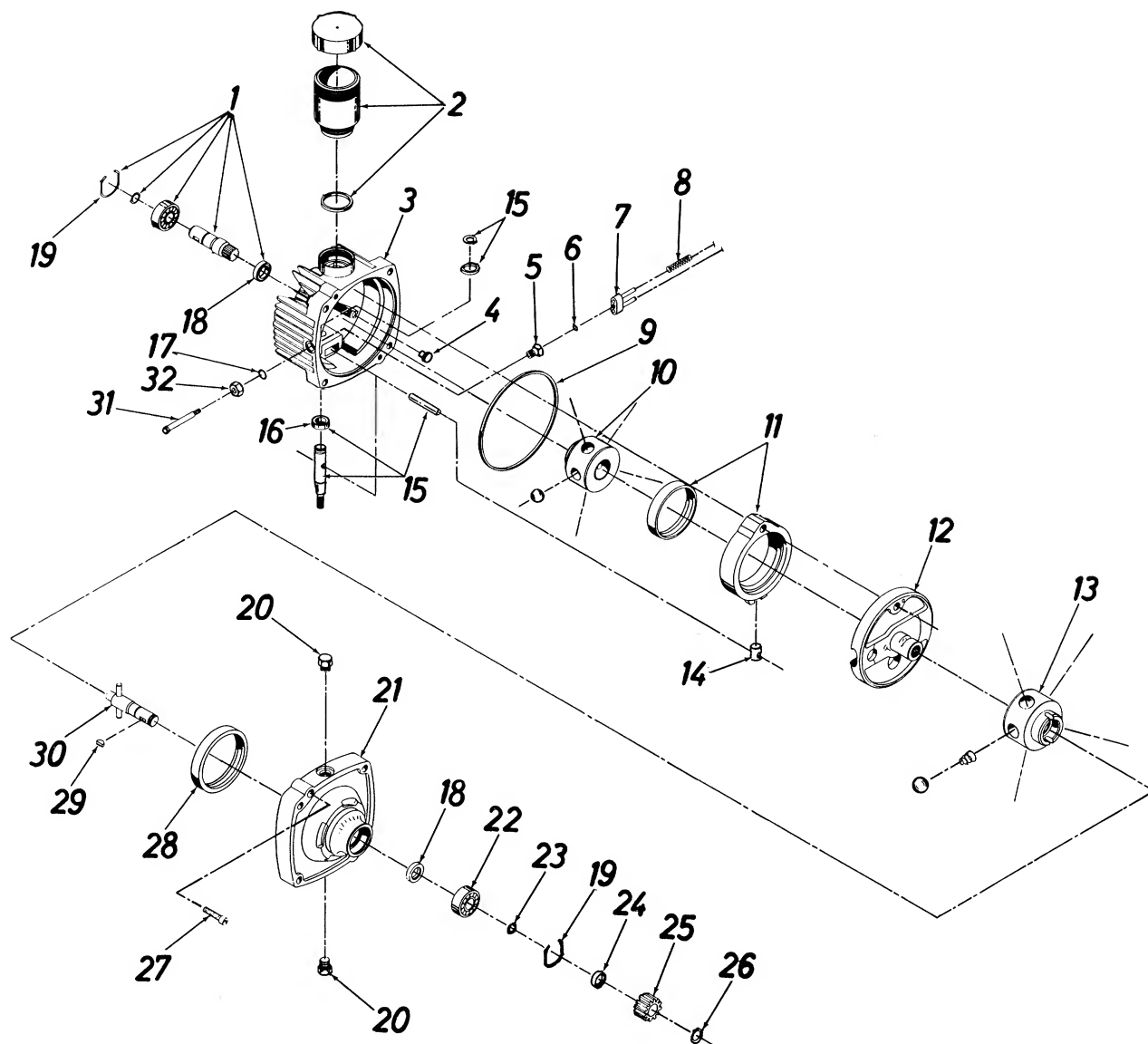
TROUBLE SHOOTING CHART FOR ELECTRIC START MODELS

TROUBLE	LOOK FOR	REMEDY
	No spark to spark plug	Spark plug lead disconnected. Connect lead. Hold spark plug lead away from engine block about 1/8". Crank engine. There should be a spark. If not, have engine repaired at authorized engine service dealer. Faulty spark plug. To test, remove spark plug. Attach spark plug lead to spark plug. Ground the spark plug body against the engine block. Crank the engine. The spark plug should fire at the electrode. Replace if it does not.
	No fuel to the carburetor	Gasoline tank empty. Fill. Fuel valve shut off. Open valve. Valve is located either at the bottom of the fuel tank or on the carburetor. Fuel line plugged. Remove and clean.
	Air filter dirty	If the air cleaner is dirty, the engine may not start. Clean or replace as recommended by the engine manufacturer.
Engine smokes	Engine loses crankcase vacuum	Dipstick not seated or broken. Replace defective part. Engine breather defective. Replace.
Excessive vibration	Bent or damaged blade spindle	Stop engine immediately. Check all pulleys, blade spindles, blade adapters, keys and bolts for tightness and damage. Tighten or replace any damaged parts.
	Bent blade	Stop engine immediately. Replace damaged blade. Only use original equipment blades.
Mower will not discharge grass or leaves in cut strips	Engine speed low	Throttle must be set between 3/4 and full throttle.
	Transmission selection	Use lower transmission speed. The slower your ground speed, the better the quality of cut.
	Blades short or dull	Sharpen or replace blades (uncut strip problem only).

HYDROSTATIC TRANSMISSION TROUBLE SHOOTING

No output torque (power) in either direction, cold start.	<ol style="list-style-type: none"> 1. Recheck relief valve position, control linkage, input drive. 2. Oil level in reservoir low. 3. Broken control shaft dowel pin. Transmission must be repaired or replaced.
Loss of output torque, continuous load.	<ol style="list-style-type: none"> 1. Operating at conditions approaching hydraulic stall. The transmission fluid has exceeded 180°F. 2. Internal leakage due to wear. Transmission should be repaired or replaced. 3. Water in transmission fluid. Purge system of all fluid and replace with new transmission fluid. Replacement of the transmission is generally not necessary.
No output torque in one direction.	<ol style="list-style-type: none"> 1. One of the directional valves is stuck. Transmission should be repaired or replaced. 2. Low oil level.
Riding mower cannot be pushed with engine off.	<ol style="list-style-type: none"> 1. Relief valve control not set. 2. Relief valve travel not adjusted. 3. Motor piston or rotor seized. Transmission must be repaired or replaced.
No neutral.	<ol style="list-style-type: none"> 1. Recheck linkage. Loose linkage creates an adjustment problem. Note: The hydraulic neutral band is very narrow. Deflection in the linkage may make it difficult to obtain neutral from both directions. It is recommended that neutral should be positive from forward drive.
Oil leakage at the control shaft seal.	<ol style="list-style-type: none"> 1. Spillage when fluid has been added to the reservoir. 2. Spillage at the vent in the reservoir at operating temperatures due to cold level being too high or water in the fluid. Reduce fluid level or replace fluid in the event there is water in it (milky color). 3. Loose oil reservoir or cover. 4. Loose vent bolt. 5. Damaged control shaft seal. Transmission should be repaired.
Noisy Operation.	<ol style="list-style-type: none"> 1. Operating at part throttle. Hydrostatic transmission is designed to operate with the engine running at full throttle. 2. Water in transmission fluid. Replace transmission fluid. 3. Air in transmission fluid. Bleed air from vent.
Output shaft rotates in the opposite direction.	<ol style="list-style-type: none"> 1. The transmission body is 180° out of position. Transmission has to be removed and reassembled correctly.

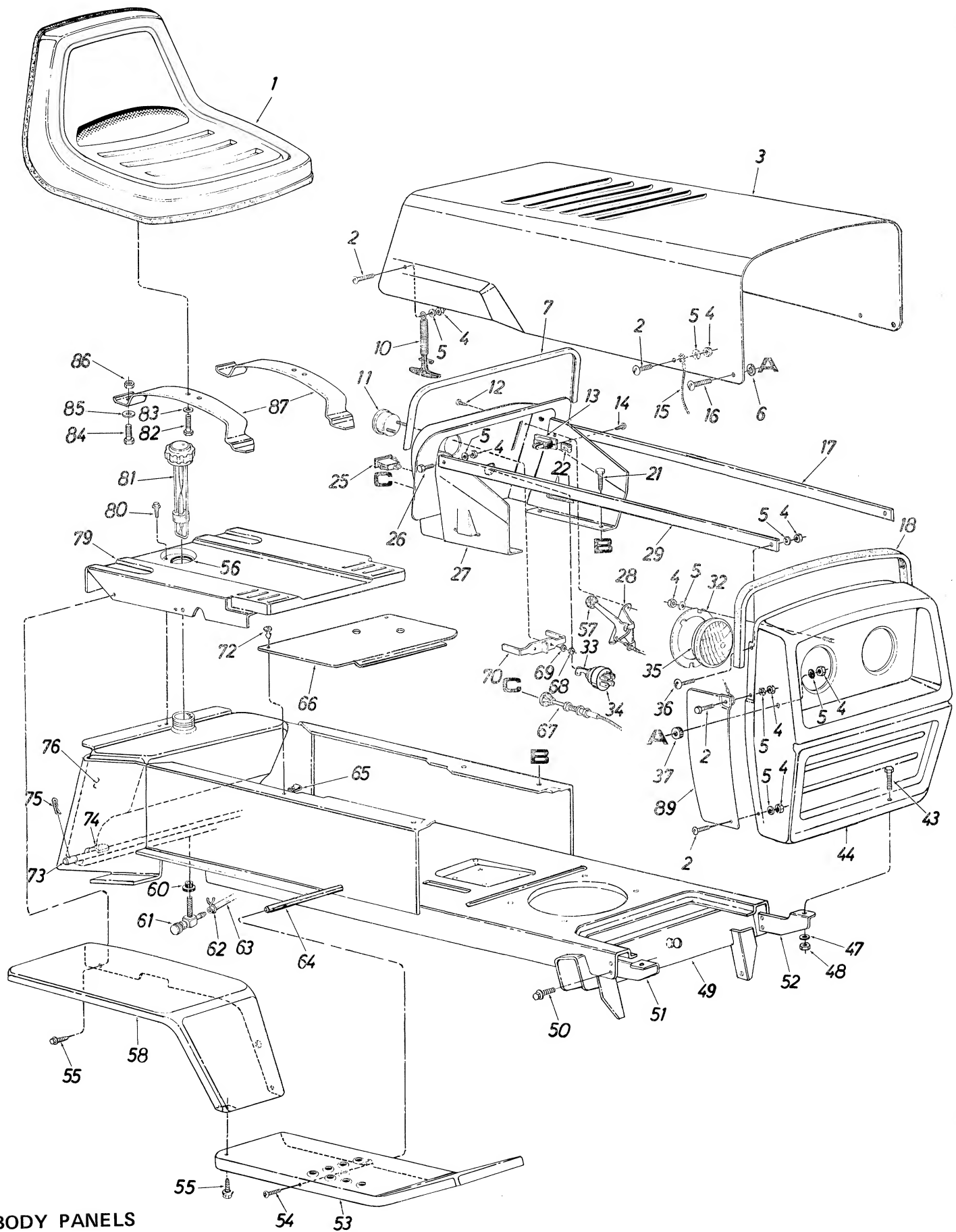
Models 760, 784 and 786



PARTS LIST FOR HYDROSTATIC TRANSMISSION M-7 (717-0426) ET-000700-002

Ref. No.	PART No.	DESCRIPTION	Ref. No.	PART No.	DESCRIPTION
1	ET-990067-000	Kit-Input Shaft	17	ET-008761-013	O-Ring .013
2	ET-990077-000	Kit- Reservoir	18	ET-093955-000	Oil Seal
3	ET-990176-000	Kit Cover	19	ET-091231-000	Retaining Ring
4	ET-101597-000	Button	20	ET-025090-006	O-Ring Plug Subassembly
5	ET-024234-000	O-Ring Fitting Guide Sub-assembly	21	ET-032278-000	Body
6	ET-008761-010	O-Ring	22	ET-090797-000	Ball Bearing (output)
7	ET-024166-000	Bracket - Pins Subassembly	23	ET-097121-000	Snap Ring
8	ET-072149-000	Valve Spring	24	ET-095202-000	Spacer
9	ET-008771-162	Square Cut Seal Ring	25	ET-040511-000	Drive Gear (12 Teeth)
10	ET-022712-000	Pump Rotor-Ball Subassembly	26	ET-096098-066	External Retaining Ring
11	ET-102449-000	Cam Ring Subassembly	27	ET-095912-125	Socket Hd. Scr. 5/16-18 x 1.25" Lg.
12	ET-102532-000	Pintle Subassembly	28	ET-040519-000	Motor Race
13	ET-022711-000	Motor Rotor-Ball Subassembly	29	ET-009476-000	Woodruff Key #3
14	ET-095203-000	Cam Ring Insert	30	ET-022892-000	Output Shaft Subassembly
15	ET-990083-000	Kit-Control Shaft	31	ET-062240-000	Dump Valve Shaft
16	ET-093895-000	Oil Seal	32	ET-024235-000	Nut-Gasket Subassembly

Models 760, 784 and 786

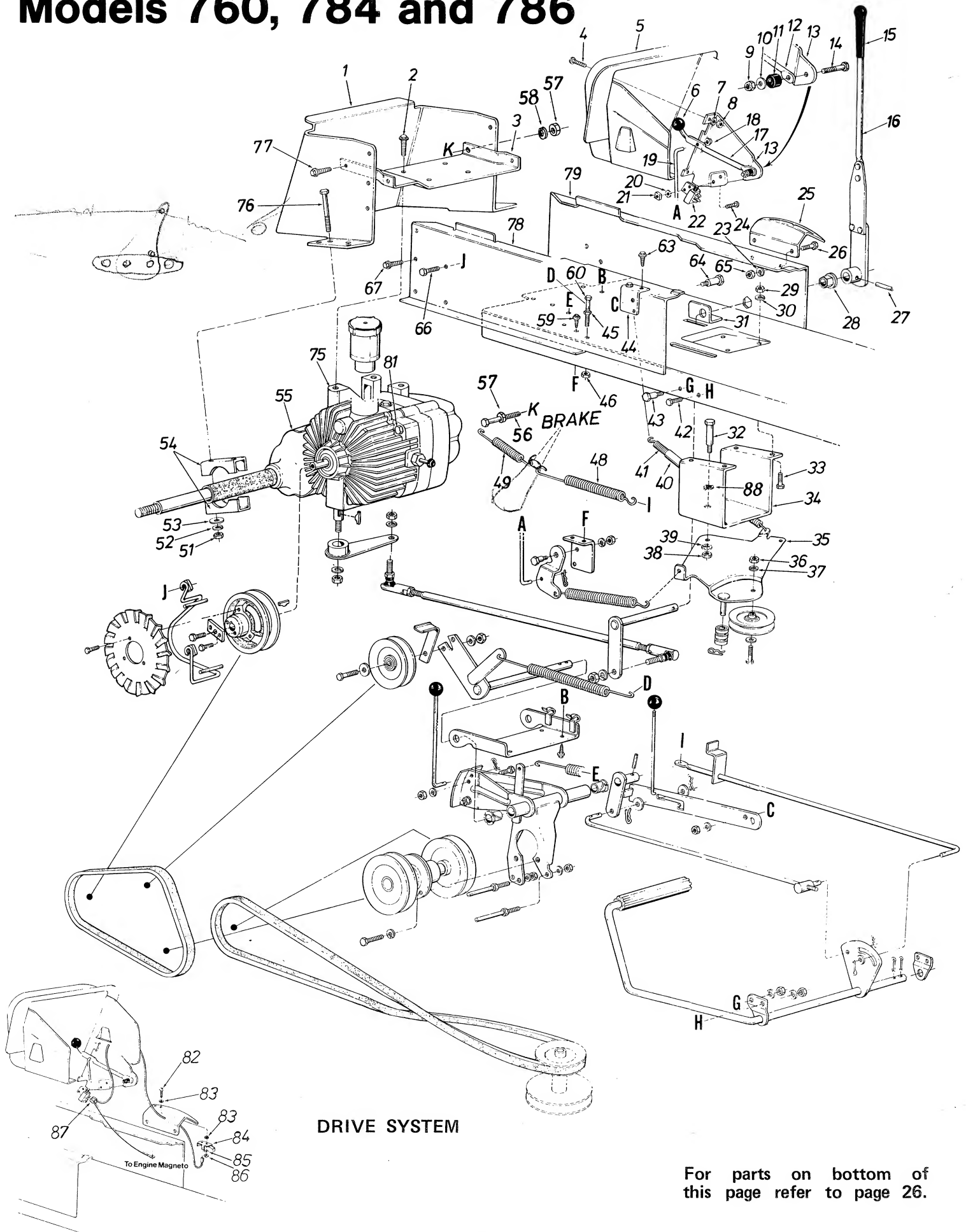


Models 760, 784 and 786

PARTS LIST FOR BODY PANELS MODELS 760, 784 and 786

Ref. No.	PART No.	COLOR CODE	DESCRIPTION	New Part	Ref. No.	PART No.	COLOR CODE	DESCRIPTION	New Part
1	757-0298		Seat Assembly		54	710-0323		Truss Mach. Scr. 5/16-18 x .75" Lg.*	
2	710-0286		Truss Mach. Scr. 1/4-20 x .50" Lg.*		55	710-0600		Hex Thd. Rolling Scr. 5/16-24 x .50" Lg.	
3	13808 --- 462		Hood		56	735-0179		Grommet (Gas Tank Neck) (784 and 786)	
4	712-0287		Hex Nut 1/4-20 Thd.*		57	720-0166		Knob (Throttle Control)	
5	736-0329		L-Wash. 1/4" Scr.*		58	13810 --- 462		Fender Ass'y. - R.H.	
6	736-0173		Fl-Wash. 1/4" I.D.			13809 --- 462		Fender Ass'y. - L.H. (Not Shown)	
7	731-0511		Vinyl Molding Strip		60	735-0149		Bushing (Gas Tank) (784 and 786)	
10	723-0296		Hood Latch Ass'y.		61	751-0171		Fuel Shut-Off Valve (784 and 786)	
11	725-0119		Ammeter		62	726-0183		Hose Clamp 3/8" (784 and 786)	
12	710-0351		Hex Tap Scr. #10 x .50" Lg.*		63	751-0173		Gas Line 60" Lg. (784 and 786)	
13	725-0459		Circuit Breaker 8 Amp.		64	738-0435		Running Board Rod	
14	710-0351		Hex Tap Scr. #10 x .50" Lg.*		65	726-0156		Speed Nut	
15	727-0199		Hood Stop		66	14023		Access Cover	
16	710-0255		Truss Mach. Scr. 1/4-20 x .75" Lg.*		67	746-0394		Choke Control Comp. (784 and 786)	
17	749-0220		Grille Positioning Rod		68	-----		Part of Ref. No. 11	
18	722-0137		PVC Foam Strip 1/2 x 1.00" x 12.5" Lg.		69	-----		Part of Ref. No. 11	
21	710-0599		Hex Thd. Rolling Scr. 1/4-20 x .50" Lg.		70	-----		Part of Ref. No. 11	
22	712-0344		Speed Nut #10 Z		71	731-0405		Snap Bushing	
25	725-0634		Light Switch		72	710-0473		Truss. Hd. Scr. 1/4-20 x .75" Lg.	
26	710-0166		Truss Hd. Scr. 1/4-20 x 1.00"		73	738-0482		Hitch Rod	
27	13843		Dash Panel Ass'y.		74	722-0135		PVC Foam Strip 1/2" x 1.00" x 2.00" (784 and 786)	
28	746-0385		Throttle Control Comp. (760)		75	714-0149		Internal Cotter Pin	
	746-0354		Throttle Control Comp. (784 and 786)		76	751-0259		Gas Tank	
29	749-0220		Grille Positioning Rod		79	13814		Seat Plate	
32	09960		Head Lamp Retainer		80	710-0600		Hex Thd. Rolling Scr. 5/16-24 x .50" Lg. (784 and 786)	
33	725-0201		Ignition Key		81	723-0346		Gas Gauge (784 and 786)	
34	725-0267		Ignition Switch		82	710-0118		Hex Scr. 5/16-18 x .75" Lg.*	
35	725-0222		Head Lamp		83	736-0119		L-Wash. 5/16" Scr.	
36	710-0258		Hex Scr. 1/4-20 x .62" Lg.*		84	710-0689		Hex Scr. Nylon Scr. 1/2-13 x .75" Lg.	
37	735-0144		Rubber Wash. .50" I.D. x 1.00 O.D. x .25 Thk.		85	736-0192		Fl-Wash. .50" I.D. x 1.00" O.D. x .090	
43	710-0118		Hex Scr. 5/16-18 x .75" Lg.		86	712-0206		Hex Nut 1/2-13 Thd.*	
44	13801 --- 462		Grille Ass'y. (Painted)		87	13123		Seat Spring	
	14226		Grille Ass'y. (Chrome)		89	14748 --- 462		Grille Side Panel - R.H.	
47	736-0119		L-Wash. 5/16" Scr.*			14749 --- 462		Grille Side Panel - L.H. (Not Shown)	
48	712-0267		Hex Nut 5/16-18 Thd.*						
49	13820		Lower Frame Ass'y.						
50	710-0600		Hex Thd. Rolling Scr. 5/16-24 x .50" Lg.						
51	13862		Grille Mount Brkt. - R.H.						
52	13863		Grille Mount Brkt. - L.H.						
53	13828 --- 452		Running Board - R.H.						
	13827 --- 452		Running Board - L.H. (Not Shown)						

Models 760, 784 and 786



Models 760, 784 and 786

PARTS LIST FOR DRIVE SYSTEM MODELS 760, 784 and 786

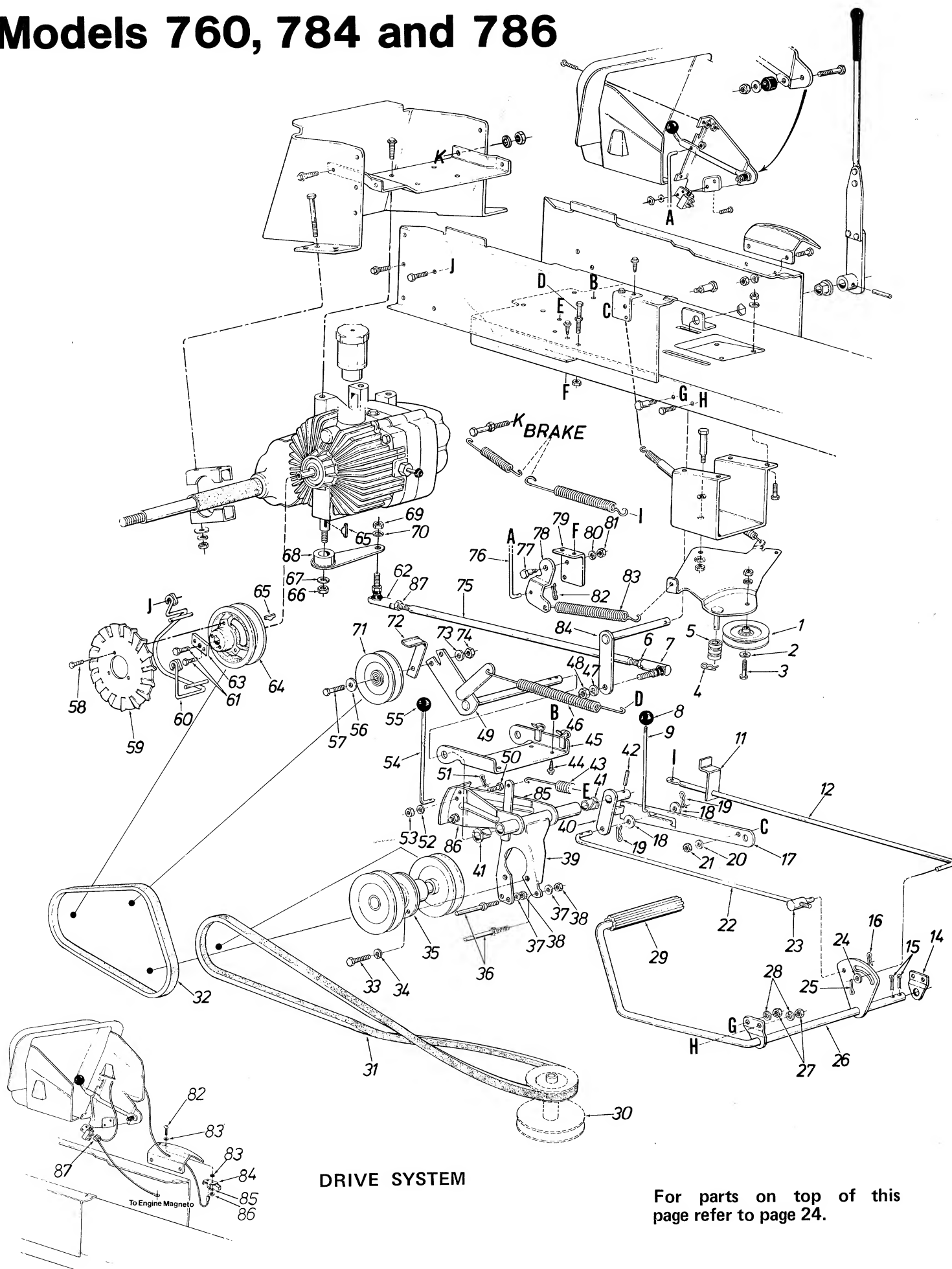
Ref. No.	PART No.	COLOR CODE	DESCRIPTION	New Part	Ref. No.	PART No.	COLOR CODE	DESCRIPTION	New Part
1	13813		Hitch Plate		42	710-0201		Hex Bolt 3/8-16 x .62" Lg.*	
2	710-0216		Hex Bolt 3/8-16 x .75" Lg.*		43	738-0234		Shld. Scr. .50" Dia. x .395" Lg. (3/8-16)	
3	13835		Rear Axle Support Brkt.		44	13833		Parking Brake Cam Mtg. Brkt.	
4	710-0286		Truss Mach. Scr. 1/4-20 x .50" Lg.*		45	712-0267		Hex Nut 5/16-28 Thd.*	
5	13843		Dash Panel Ass'y.		46	712-0267		Hex Nut 5/16-18 Thd.*	
6	720-0165		Knob - Blade Clutch		48	732-0413		Brake Tension Spring	
7	736-0329		L-Wash. 1/4" I.D.*		49	732-0157		Ext. Spring - Brake Return	
8	712-0287		Hex Nut 1/4-20 Thd.*		51	712-0798		Hex Nut 3/8-16 Thd.*	
9	712-0107		Hex Cent. L-Nut-20 Thd.		52	736-0169		L-Wash. 3/8" I.D.*	
10	736-0173		Fl-Wash. .28" I.D. x .74" O.D. x .063		53	736-0258		Fl-Wash. .390" I.D. x 1.00" O.D. x .125" Thk.	
11	735-0126		Rubber Wash. .33" I.D. x .87" O.D. x .30		54	13892		Rear Axle Bracket	
12	747-0157		Blade Clutch Lever		55	-----		Transaxle (See Breakdown Page 32)	
13	13950		Deck Clutch Cont. Brkt.		56	710-0501		Hex Bolt 1/4-20 x 2" Lg.*	
14	710-0106		Hex Bolt 1/4-20 x 1.25" Lg.*		57	712-0287		Hex Nut 1/4-20 Thd.*	
15	720-0143		Grip		58	736-0329		L-Wash. 1/4" I.D.*	
16	14038		Control Arm Ass'y.		59	710-0599		Hex Wash. Hd. Self-Tap Scr. 1/4-20 x .50" Lg.	
17	747-0157		Blade Clutch Lever		60	710-0442		Hex Bolt 5/16-18 x 1.50" Lg.	
18	726-0106		Push Nut 1/4" O.D. Rod		63	710-0599		Hex Wash. Hd. Self-Tap Scr. 1/4-20 x .50" Lg.	
19	747-0307		Deck Control Rod		64	738-0155		Shld. Scr. .437" Dia. x .162" Lg.	
20	736-0147		Ext. L-Wash. #10 Scr.*		65	712-0267		Hex Nut 5/16-18 Thd.*	
21	712-0121		Hex Nut #10-24 Thd.*		67	710-0600		Hex Wash. Hd. Self-Tap Scr. 5/16-24 x .50" Lg.	
22	725-0465		Safety Switch		75	717-0426		Hydrostatic Pump Comp.	
23	736-0119		L-Wash. 5/16" I.D.*		76	710-0644		Hex Bolt 3/8-16 x 3.25" Lg.	
24	710-0473		Truss Machi Scr. #10-24 x x .50" Lg.*		77	710-0600		Hex Wash. Hd. Self-Tap Scr. 5/16-24 x .50" Lg.	
25	14020		Speed Control Bracket		78	13848		Side Panel Upper Frame R.H.	
26	710-0752		Hex Bolt 5/16-18 x .62" Lg.*		79	13847		Side Panel Upper Frame L.H.	
27	715-0108		Spring Pin Spiral 1/4" Dia. x 1.00" Lg.		80	731-0493		Cap	
28	741-0225		Hex Flange Brg.		81	710-0492		Socket Hd. Bolt 3/8-16 x 2.75" Lg.	
29	712-0267		Hex Nut 5/16-18 Thd.*		82	710-0473		Truss Mach. Scr. #10-24 x .50" Lg.	
30	736-0119		L-Wash. 5/16" I.D.*		83	736-0338		Fiber Wash.	
31	14035		Speed Control Shaft Brkt.		84	725-0759		Spring Switch	
32	738-0155		Shld. Scr. .437" Dia. x .162" Lg.		85	736-0147		Ext. L-Wash. #10	
33	710-0376		Hex Bolt 5/16-18 x 1.00" Lg.*		86	712-0121		Hex Nut #10-24 Thd.	
34	13826		Idler Support Brkt.		87	725-0765		Reverse Lockout Wire	
35	13893		Idler Brkt. Ass'y.		88	736-0141		Harness	
36	712-0798		Hex Nut 3/8-16 Thd.*					Wave Washer	
37	736-0105		Belleville Washer 3/8" I.D.						
38	712-0267		Hex Nut 5/16-18 Thd.						
39	736-0119		L-Wash. 5/16" I.D.*						
40	731-0483		Convoluted Conduit .50" I.D.						
41	732-0308		Ext. Spring .50" O.D. x 6.37" Lg.						

For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

(462—Red Flake)

When ordering parts if color is important, use the appropriate color code listed above. (e.g. 12369—462—Red Flake)

Models 760, 784 and 786

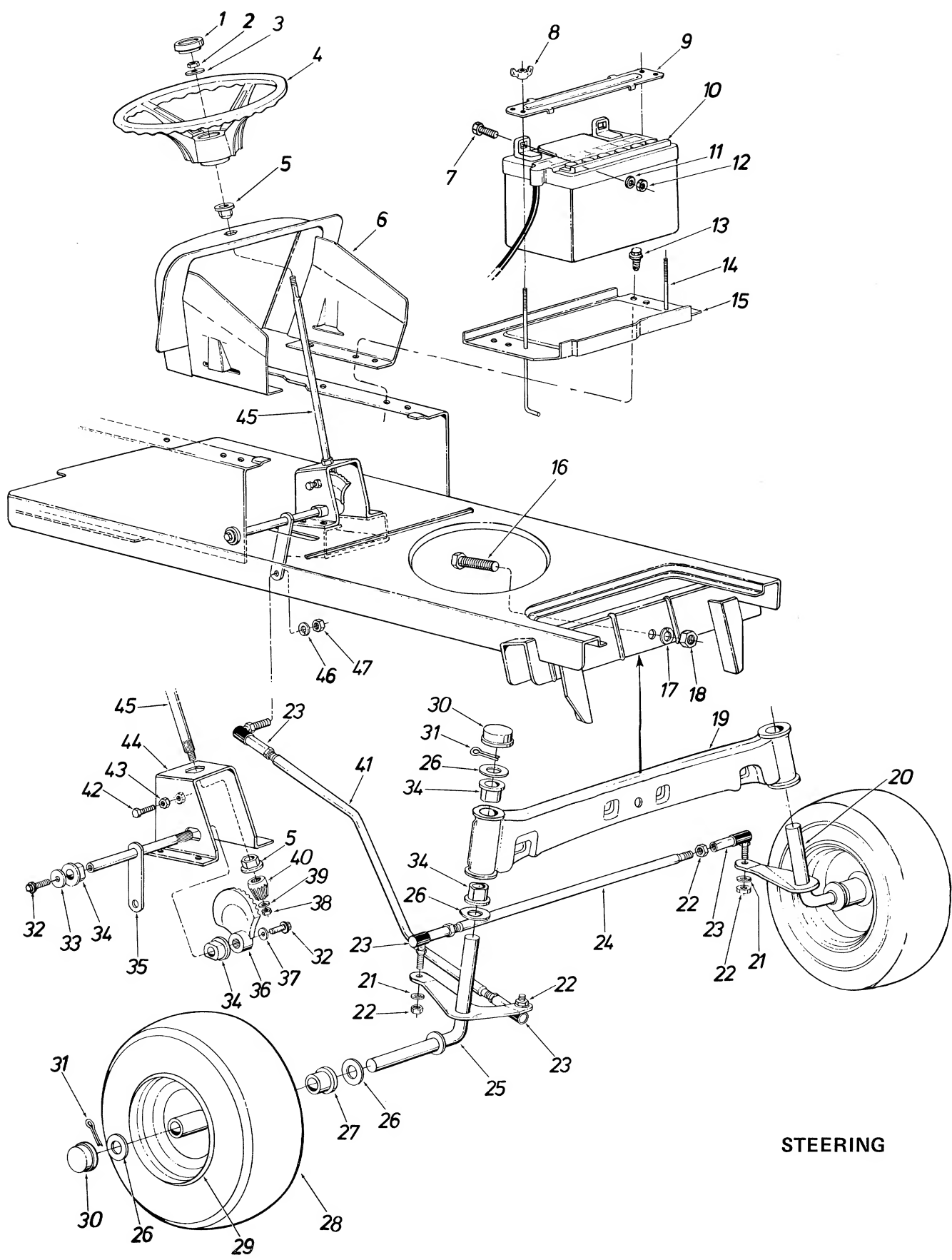


Models 760, 784 and 786

PARTS LIST FOR DRIVE SYSTEM MODELS 760, 784 and 786

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	756-0293		4" Dia. "V"-Idler Pulley		45	13822		Idler Mtg. Brkt.	
2	736-0300		Fl-Wash. 3/8" I.D.		46	732-0384		Ext. Spring (Drive Idler)	
3	710-0342		Hex Bolt 3/8-16 x 1.25" Lg.*		47	736-0169		L-Wash. 3/8" I.D.*	
4	714-0104		Intern. Cotter Pin 5/16" Dia.		48	712-0241		Hex Nut 3/8-24 Thd.*	
5	748-0278		Spacer		49	13815		Clutch Brkt. Ass'y.	
6	712-0711		Hex Jam L-Nut 3/8-24 Thd.		50	710-0289		Hex Bolt 1/4-20 x .50" Lg.*	
7	723-0156		Ball Joint Ass'y. 3/8-24 Thd.		51	714-0104		Internal Cotter Pin 5/16" Dia.	
8	720-0166		Ball Knob					Rod	
9	747-0300		Parking Brake Link		52	736-0329		L-Wash. 1/4" I.D.*	
11	14027		Brake Rod Hanger		53	712-0287		Hex Nut 1/4-20 Thd.*	
12	747-0400		Brake Rod		54	747-0312		Relief Valve Lockout Rod	
14	13859		Clutch Rod Brg. Brkt.		55	720-0187		Ball Knob	
15	714-0474		Cotter Pin 1/8" Dia. x 1.00" Lg.*		56	736-0300		Fl-Wash. 3/8" I.D.	
					57	710-0347		Hex Bolt 3/8-16 x 1.25" Lg.*	
16	714-0145		Hairpin Cotter 3/8" Rod		58	710-0289		Hex Bolt 1/4-20 x .50" Lg.*	
17	13832		Parking Brake Cam		59	14019		Cooling Fan	
18	736-0101		Fl-Wash. .406 I.D. x 1.00" O.D. x .030		60	14016		Belt Guard Ass'y.	
					61	710-0211		Hex Sems Bolt 1/4-20 x .75" Lg.*	
19	714-0145		Hairpin Cotter 3/8" Rod					Ball Joint Ass'y. 3/8-24 L.H. Thd.	
20	736-0275		Fl-Wash. 5/16" Scr.*		62	723-0351			
21	712-0267		Hex Nut 5/16-18 Thd.*					End Stop	
22	747-0306		Brake Cam Rod		63	04493		Transaxle Pulley 4.25" Dia.	
23	711-0198		Pivot Bushing		64	756-0338		Hi-Pro Key 1/8" x 1/2" Dia.	
24	736-0275		Fl-Wash. .401" I.D. x .749" O.D. x .057" Thk.		65	714-0156		Hex Nut 3/8-16 Thd.*	
25	714-0115		Cotter Pin 1/8" Dia. x 1.00" Lg.		66	712-0798		L-Wash. 3/8" I.D.*	
					67	736-0169		Pintle Arm Ass'y.	
26	13856		Clutch Brake Pedal Ass'y.		68	14022		Hex Nut 3/8-24 Thd.*	
27	736-0169		L-Wash. 3/8" I.D.*		69	712-0241		L-Wash. 3/8" I.D.*	
28	712-0375		Hex Cent. L-Nut 3/8-16 Thd.		70	736-0169		4" "V"-Idler Pulley	
29	735-0196		Foot Pad		71	756-0293		Belt Guard (Clutch Idler)	
30	756-0328		Two-Step Engine Pulley 4.75" and 5.56"		72	13819		L-Wash. 3/8" I.D.*	
31	754-0245		"V"-Belt 1/2" x 59" Lg.		73	736-0169		Hex Nut 3/8-16 Thd.*	
32	754-0255		"V"-Belt 1/2" x 37" Lg.		74	712-0798		Speed Control Rod	
33	710-0198		Hex Sems Bolt 5/16-18 x .75" Lg.*		75	747-0321		Deck Control Rod	
					76	747-0307		Shld. Scr. .437" Dia. x .162" Lg. (5/16-18)	
34	736-0119		L-Wash. 5/16" I.D.*		77	738-0155		Deck Control Pivot Brkt.	
35	756-0324		Jack Shaft Ass'y.		78	13887		Parking Brake Cam Mtg. Brkt.	
36	711-0696		Stud 3/8-16 x 3.62" Lg.		79	13833			
37	736-0169		L-Wash. 3/8" I.D.*					L-Wash. 5/16" I.D.*	
38	712-0798		Hex Nut 3/8-16 Thd.*		80	736-0119		Hex Nut 5/16-18 Thd.*	
39	13823		Jack Shaft Mtg. Brkt. Ass'y.		81	712-0267		Internal Cotter Pin 5/16" Rod	
40	13871		Clutch Idler Horn Ass'y.		82	714-0104		Extension Spring	
41	741-0295		Nyliner 5/8" I.D. x .88" Lg.		83	732-0384		Speed Control Shaft Ass'y.	
42	715-0108		Spring Pin Spiral 1/4" Dia. x 1.00" Lg.		84	14034		Relief Valve Cam—L.H.	
					85	14025		Relief Valve Cam—R.H.	
43	732-0153		Ext. Spring (Jack Shaft)		86	14026		Hex Jam L-Nut 3/8-24 L.H. Thd.	
44	710-0599		Hex Wash. Hd. Self-Tap Scr. 1/4-20 x .50" Lg.		87	712-0312			

Models 760, 784 and 786



STEERING

Models 760, 784 and 786

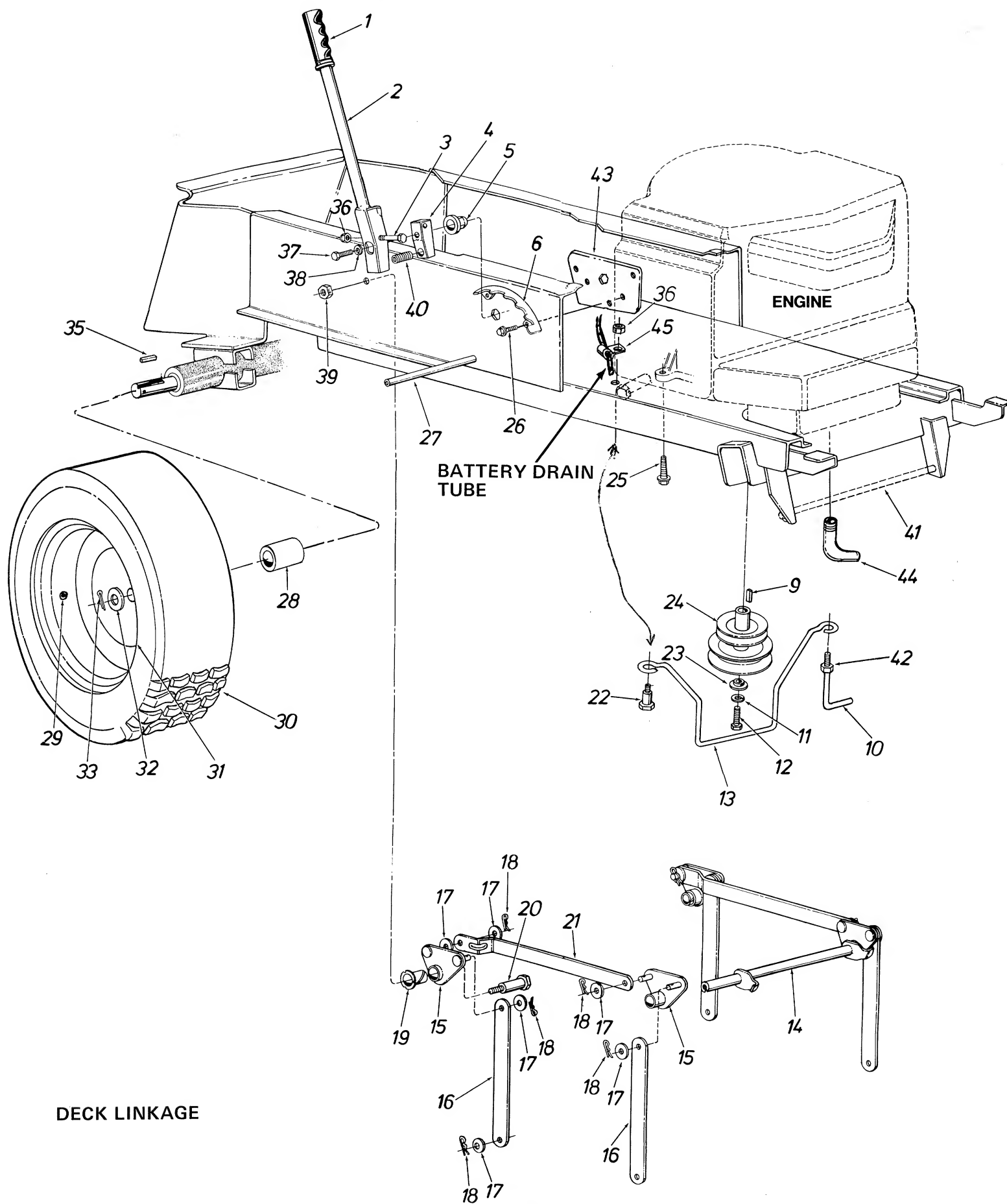
PARTS LIST FOR DRIVE SYSTEM MODELS 760, 784 and 786

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	731-0220		Steering Wheel Cap		28	734-0960		Front Wheel Ass'y. Comp.	
2	712-0158		Hex Cent. L-Nut 5/16-18 Thd.		29	734-0961		Front Wheel Rim Only	
3	736-0275		Fl-Wash. 5/16" I.D. x 1.00" O.D. x .057			734-0498		Front Wheel Tire Only 15 x 6.00	
4	731-0356		Steering Wheel			734-0255		Air Valve	
5	741-0225		Plastic Hex Bearing 5/8" I.D.	30	731-0484			Dust Cover	
6	13843		Dash Panel Ass'y.	31	714-0121			Cotter Pin 5/32" Dia. x 1.00" Lg.*	
7	710-0258		Hex Scr. 1/4-20 x .62" Lg.		32	710-0180		Hex Scr. 3/8-24 x .75" Lg. Grade 5	
8	712-0113		Wing Nut Plastic 1/4-20 Thd.		33	736-0133		Fl-Wash. 3/8 I.D. x 1.25 O.D. x .090	
9	12614		Battery Hold Down		34	741-0199		Flange Double "D" Brg. .753 I.D.	
10	725-0453		12-V Battery	35	12749			Steering Arm Shaft Ass'y.	
11	736-0329		L-Wash. 1/4" Scr.*	36	748-0236			Side Gear—Steering	
12	712-0287		Hex Nut 1/4-20 Thd.*	37	736-0105			Bell-Wash. 3/8" I.D.	
13	710-0599		Hex Thd. Rolling Scr. 1/4-20 x .50" Lg.	38	712-0237			Hex Cent. L-Nut 5/16-24 Thd.	
14	711-0222		Battery Hold Down Rod	39	736-0264			Fl-Wash. 5/16" I.D. x .62 O.D. x .059	
15	13379		Battery Plate	40	748-0237			Pinion Gear—Steering	
16	710-0533		Hex Scr. 5/8-18 x 2.50" Lg.*	41	747-0302			Drag Link	
17	736-0158		L-Wash. 5/8" Scr.*	42	710-0670			Hex Nylon Scr. 3/8-16 x 1.25" Lg.	
18	712-0923		Hex Cent. L-Nut 5/8-18 Thd.	43	712-0798			Hex Nut 3/8-16 Thd.*	
19	13865		Front Pivot Bar Ass'y.	44	12850			Steering Gear Sup. Ass'y.	
20	13839		Front Axle Ass'y.—L.H.	45	738-0317			Steering Shaft	
21	736-0169		L-Wash. 3/8" Scr.*	46	736-0169			L-Wash. 3/8" Scr.*	
22	712-0241		Hex Nut 3/8-24 Thd.*	47	712-0241			Hex Nut 3/8-24 Thd.*	
23	723-0156		Ball Joint Ass'y.						
24	747-0301		Tie Rod						
25	13838		Front Axle Ass'y.—R.H.						
26	736-0316		Fl-Wash. .780 I.D. x 1.59 O.D.						
27	741-0293		Flange Bearing						



This instruction manual covers various models and all specifications shown do not necessarily apply to your model. Specifications subject to change without notice or obligation.

Models 760, 784 and 786



Models 760, 784 and 786

PARTS LIST FOR DECK LINKAGE MODEL 760, 784 and 786

REF. No.	PART No.	COLOR CODE	DESCRIPTION	NEW PART	REF. No.	PART No.	COLOR CODE	DESCRIPTION	NEW PART
1	720-0157		Grip		24	756-0328		Two-Step Engine Pulley	
2	14233		Lift Handle Ass'y.		25	710-0502		Hex Wash. Hd. Scr. 3/8-16 x 1.25" Lg.	
3	710-0442		Hex Scr. 5/16-18 x 1.50" Lg.*		26	710-0600		Hex Thd. Rolling Scr. 5/16-24 x .50" Lg.	
4	748-0274		Lift Shaft Drive		27	738-0435		Running Board Rod	
5	741-0225		Plastic Hex Brg. 5/8" I.D.		28	750-0490		Spacer 1" I.D. x 1.25" O.D. x 2.12" Lg.	
6	14231		Index Brkt. Deck Lift		29	734-0255		Air Valve	
9	714-0118		Sq. Key 1/4 x 1/4 x 1.50" Lg.		30	734-1004		Rear Wheel Ass'y. Comp.	
10	747-0216		Belt Guard Lock Pin		31	734-1015		Rear Wheel Rim Only	
11	736-0171		L-Wash. 7/16" Scr.*			734-0967		Rear Wheel Tire Only 22 x 7.50	
12	710-0757		Hex Scr. 7/16-20 x 1.50" Lg.		32	736-0259		Wash. 1" I.D. x 1.63" O.D.	
13	747-0299		Belt Guard		33	714-0142		Cotter Pin 3/16" Dia. x 1.50" Lg.	
14	13889		Lift Shaft Ass'y.		35	714-0120		Sq. Key 1/4 x 1/4 x 3.00" Lg.	
15	13895		Lift Pivot Brkt. Ass'y.		36	712-0158		Hex Cent. L-Nut 5/16-18 Thd.	
16	13791		Link (Deck)		37	710-0237		Hex Scr. 5/16-24 x .62" Lg.*	
17	736-0192		Fl-Wash. 1/2" I.D. x 1.00" O.D. x .090		38	736-0119		L-Wash. 5/16" Scr.*	
18	714-0474		Cotter Pin 1/8" Dia. x .75" Lg.		39	712-0181		Hex Top L-Nut 3/8-16 Thd.	
19	741-0295		Nyliner 5/8" I.D. x .88" Lg.		40	732-0369		Compression Spring	
20	738-0445		Shld. Scr. 5/8" Dia. .96" Lg. 3/8-16		41	738-0392		Deck Connecting Rod	
21	13790		Connecting Link		42	712-0123		Hex Nut 5/16-24 Thd.*	
22	738-0296		Shld. Scr. .437 Dia. x .268 Lg. 5/16-18		43	14170		Index Brkt. Reinforcement Plate	
23	736-0322		Fl-Wash. 7/16" I.D. x 1.25" O.D. x .180		44	751-0275		Exhaust Pipe (784 and 786)	
					45	726-0175		Mounting Clamp (784 and 786)	

* For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

The engine is not under warranty by the lawn tractor manufacturer. If repairs or service is needed on the engine, please contact your nearest authorized engine service outlet. Check the "Yellow Pages" of your telephone book under "Engines — Gasoline."



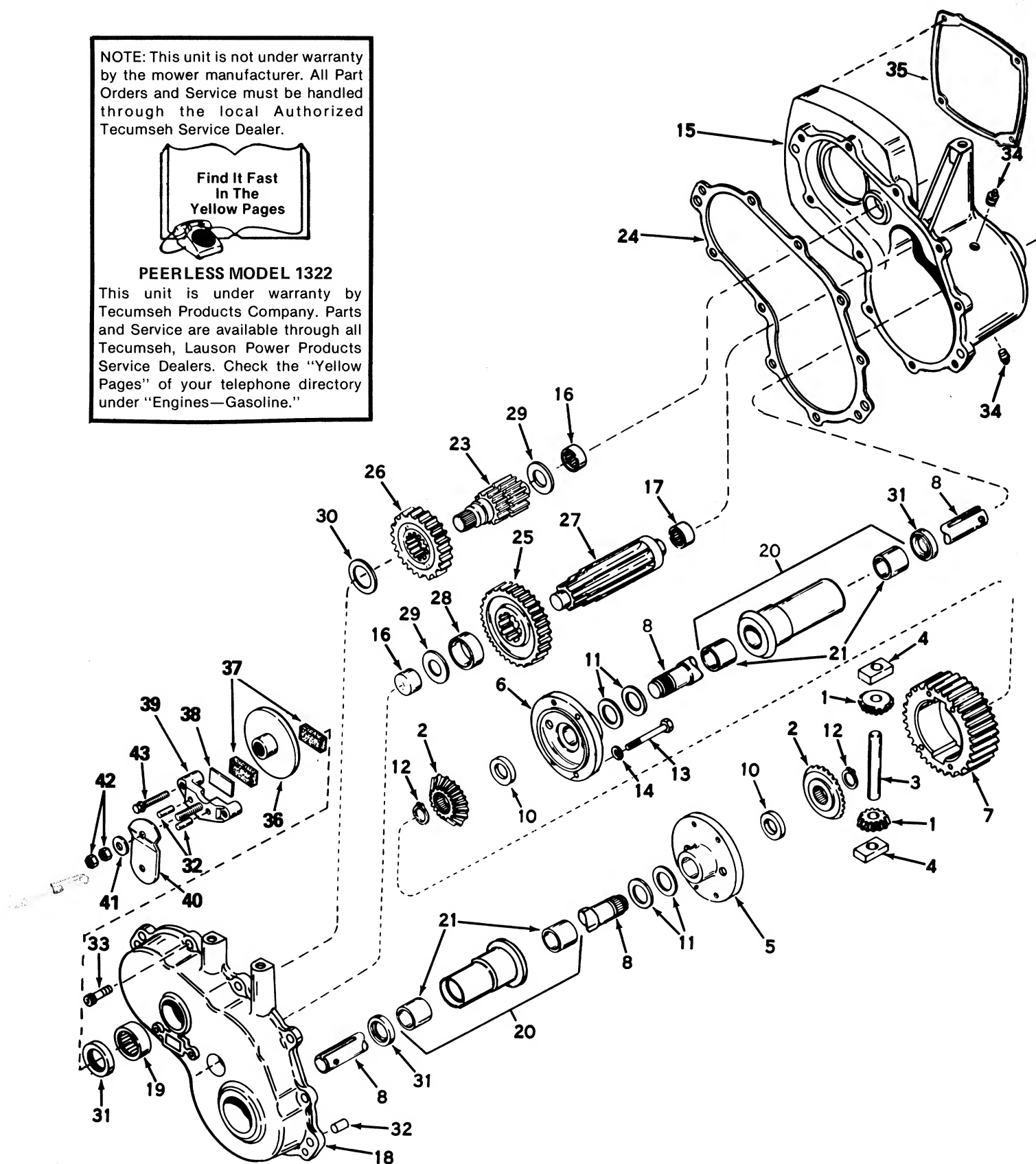
Models 760, 784 and 786

NOTE: This unit is not under warranty by the mower manufacturer. All Part Orders and Service must be handled through the local Authorized Tecumseh Service Dealer.



PEERLESS MODEL 1322

This unit is under warranty by Tecumseh Products Company. Parts and Service are available through all Tecumseh, Lauson Power Products Service Dealers. Check the "Yellow Pages" of your telephone directory under "Engines—Gasoline."



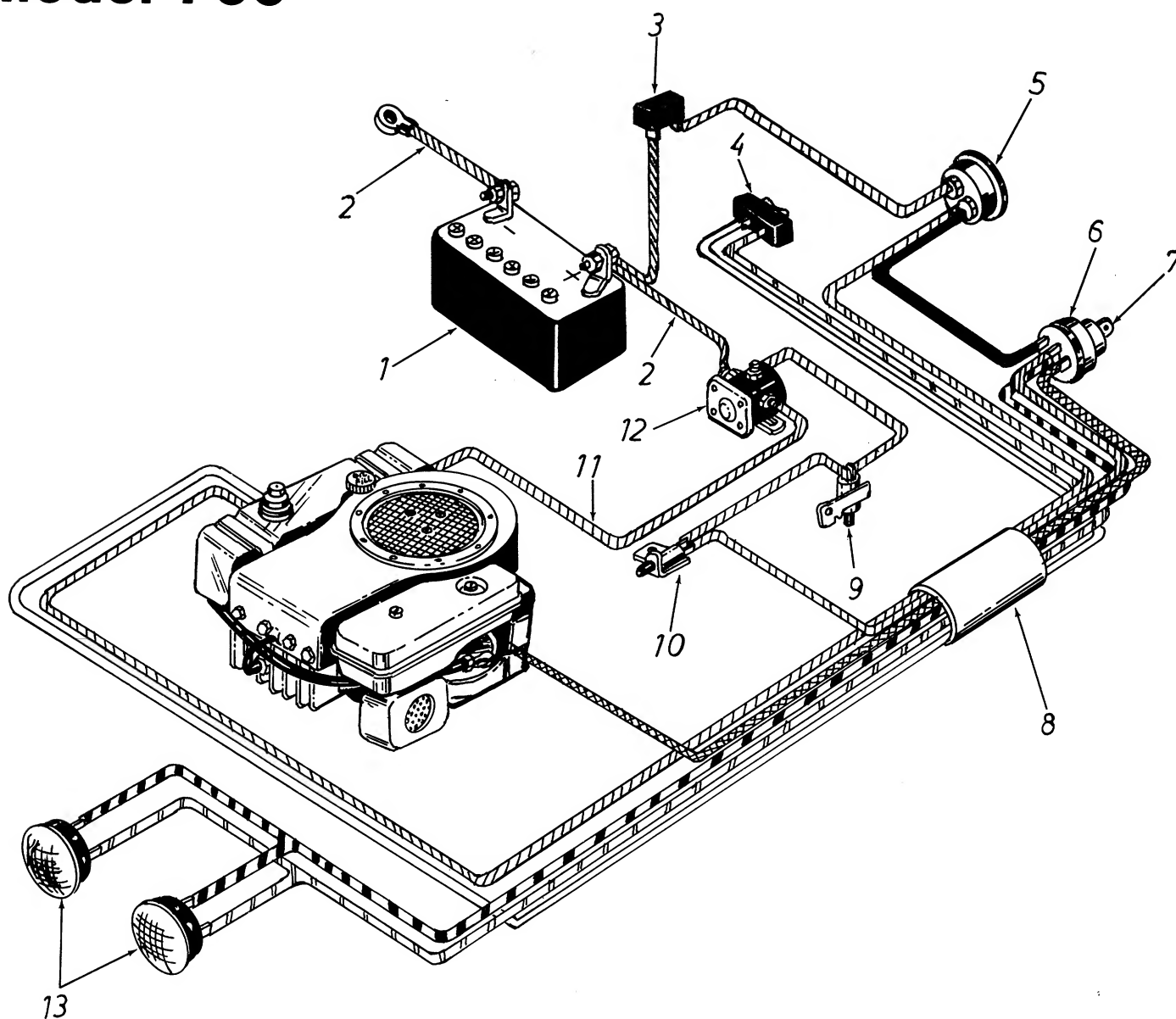
TRANSAXLE MODEL 1322

Models 760, 784 and 786

PARTS LIST FOR TRANSAXLE MODEL 1322

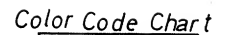
Ref. No.	PART No.	DESCRIPTION
1	PE-778014	Pinion, Bevel
2	PE-778039	Gear, Bevel
3	PE-786019	Pin, Drive
4	PE-786027	Block, Drive
5	PE-774028A	Carrier, Differential
6	PE-774029A	Carrier, Differential
7	PE-778033A	Gear, Ring
8	PE-774434	Axle (16-1/64" Long)
10	PE-780107	Washer
11	PE-780042	Washer, Thrust
12	PE-792018	Ring, Snap
13	PE-792020	Screw, Hex Hd., 1/4-20 x 2-1/4
14	PE-792006	Lock Washer, 1/4"
15	PE-770052	Case Assy. (Incl. Nos. 16 & 17)
16	PE-780013	Bearing, Needle
17	PE-780088	Bearing, Needle
18	PE-772085	Cover Assy. (Incl. Nos. 16 & 19)
19	PE-780089	Bearing, Needle
20	PE-782041	Housing Assy., Axle (Incl. 2 of No. 21)
21	PE-780054	Bushing
23	PE-776207	Shaft, Brake
24	PE-788044	Gasket, Case to cover
25	PE-778036	Gear, Output
26	PE-778037	Gear, Idler
27	PE-778041	Shaft, Output
28	PE-786017	Spacer
29	PE-780001	Washer
30	PE-780090	Washer
31	PE-788008	Seal, Oil
32	PE-786026	Pin, Dowel
33	PE-792046	Screw, Hex Hd., self-tapping, 1/4-20 x 1
34	PE-792010	Plug, Pipe.
35	PE-788046	Gasket
36	PE-790027	Disc, Brake
37	PE-790006	Pad, Brake
38	PE-790007	Plate, Brake Pad
39	PE-790005	Holder, Brake Pad
40	PE-790010	Lever, Brake
41	PE-792076	Washer, Flat
42	PE-792075	Lock Nut, 5/16-24
43	PE-792073	Screw, Hex Hd. Self-tapping, 1/4-20 x 1-1/4

Model 760



PARTS LIST FOR ELECTRICAL SYSTEM MODEL 760

Ref. No.	PART No.	DESCRIPTION
1	725-0453	12V-battery
2	725-0563	Electric Cable
3	725-0459	Circuit Breaker
4	725-0634	Light Switch
5	725-0119	Ammeter
6	725-0267	Ignition Switch
7	725-0201	Ignition Key
8	725-0666	Wire Harness
9	725-0465	Safety Switch
10	725-0268	Safety Switch
11	725-0561	Electric Cable
12	725-0771	Solenoid
13	725-0222	Headlight



PARTS LIST FOR ELECTRICAL SYSTEM MODELS 784 and 786

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PARTS INFORMATION

POWER EQUIPMENT PARTS AND SERVICE

Parts and service for all MTD manufactured power equipment are available through the authorized service firms listed below. All orders should specify the model number of your unit, part numbers, description of parts and the quantity of each part required.

NOTE: If any parts are found to be missing or defective upon assembly of this unit, write to advise the factory so that immediate replacement can be made.

ALABAMA	BIRMINGHAM
Auto Electric & Carburetor Co.	2625 4th Ave. S. 35233
ARKANSAS	FORT SMITH
Mity Mite Motors, Inc.	4515 S. 16th St. 72901
Sutton's Lawn Mower Shop	NORTH LITTLE ROCK
CALIFORNIA	PORTERVILLE
Billious	Rt. 4, Box 368 72117
COLORADO	DENVER
Spitzer Industrial Products Co.	75 North D Street 93257
	6601 N. Washington St.,
FLORIDA	Box 29114 80229
Radco Distributors	JACKSONVILLE
	4909 Victor St.,
	Box 5459 32207
Small Eng. Dist.	OPA LOCKA
GEORGIA	2351 N.W. 147th St. 33054
East Point Cycle & Key	EAST POINT
ILLINOIS	2834 Church St. 30344
Keen Edge Co.	LYONS
INDIANA	8615 Ogden Ave. 60534
Parts & Sales Inc.	ELKHART
IOWA	2101 Industrial Pkwy. 46514
Power Lawn & Garden Equip.	DUBUQUE
LOUISIANA	2551 J.F. Kennedy 52001
Suhren Engine Co.	NEW ORLEANS
MARYLAND	8330 Earhart Blvd. 70118
Center Supply Co.	TAKOMA PARK
	6867 New Hampshire
	Ave. 20012
MASSACHUSETTS	SPRINGFIELD
Morton B. Collins Co.	300 Birnie Ave. 01107
MICHIGAN	LANSING
Lorenz Service Co.	2500 S. Pennsylvania 48910
Power Equipment Dist.	MOUNT CLEMENS
MINNESOTA	340 Hubbard 48043
Hance Distributing Inc.	HOPKINS
MISSISSIPPI	420 Excelsior Ave. W. 55343
Biloxi Sales & Service, Inc.	BILOXI
MISSOURI	506 Caillavet St. 39533
Automotive Equip. Service	KANSAS CITY
	3117 Holmes St. 64109
Ross-Frazier Supply Co.	ST. JOSEPH
	8th and Monterey 64503
Henzler, Inc.	ST. LOUIS
NEW JERSEY	2015 Lemay Ferry Rd. 63125
Lawnmower Parts Inc.	BELLMAWR
NEW MEXICO	717 Creek Rd. 08030
Spitzer Eng. & Parts	ALBUQUERQUE
NEW YORK	1023 Third St. N.W. 87103
Gamble Dist., Inc.	CARTHAGE
	West End Ave. 13619

BRIGGS AND STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

Briggs & Stratton, Tecumseh and Peerless parts and se should be handled by your nearest authorized engine service fi. Check the yellow pages of your telephone directory under the listing **Engines—Gasoline**, Briggs & Stratton or Tecumseh Lauson.

NORTH CAROLINA	GOLDSBORO
Smith Hardware Co.	515 N. George St. 27530
Dixie Sales Company	GREENSBORO
OHIO	335 N. Green 27402
Stebe's Mid-State Mower Supply	CARROLL
	71 High St., Box 366 43112
Bleckrie, Inc.	CLEVELAND
	7900 Lorain Ave. 44102
National Central	WADSWORTH
	687 Seville Rd. 44281
Burton Supply Co.	YOUNGSTOWN
	1301 Logan Ave.,
	Box 929 44501
OKLAHOMA	MUSKOGEE
Victory Motors, Inc.	605 S. Cherokee 74401
OREGON	PORTLAND
Kenton Supply Co.	8216 N. Denver Ave. 97217
PENNSYLVANIA	HARRISBURG
EECO Inc.	4021 N. 6th St. 17110
Thompson Rubber Co.	PHILADELPHIA
	5222-24 N. Fifth St. 19120
Bluemont Co.	PITTSBURGH
	11125 Frankstown Rd. 15235
Frank Roberts & Sons	PUNXSUTAWNEY
TENNESSEE	R.D. 2 15767
Master Repair Service	KNOXVILLE
	2000 Western Ave. 37
American Sales & Service, Inc.	MEMPHIS
TEXAS	3035-43 Bellbrook 36
Marr Brothers, Inc.	DALLAS
	423 E. Jefferson 75203
Woodson Sales Corp.	FORT WORTH
	1702 N. Sylvania 76111
Bullard Supply Co.	HOUSTON
UTAH	2409 Commerce St. 77003
A-1 Engine & Mower Co.	SALT LAKE CITY
VERMONT	437 E. 9th St. 84111
Vermont Hdwe. Co. Inc.	BURLINGTON
VIRGINIA	180 Flynn Ave. 05401
RBI Corp.	ASHLAND
	Lake Ridge Park,
	101 Cedar Run Dr. 23005
WASHINGTON	SEATTLE
Bailey's Inc.	1414 14th Ave. 98102
WEST VIRGINIA	CHARLESTON
Young's, Inc.	233 Virginia St., E. 25301
WISCONSIN	MARSHFIELD
Power Pac	301 E. 29th St. 54449

WARRANTY PARTS AND SERVICE POLICY

The purpose of warranty is to protect the customer from defects in workmanship and materials, defects which are NOT detected at the time of manufacture. It does not provide for the unlimited and unrestricted replacement of parts. Use and maintenance are the responsibility of the customer. The manufacturer cannot assume responsibility for conditions over which it has no control. Simply put, if it's the manufacturer's fault, it's the manufacturer's responsibility; if it's the customer's fault, it's the customer's responsibility.

CLAIMS AGAINST THE MANUFACTURER'S WARRANTY INCLUDES:

1. Replacement of Missing Parts on new equipment.
2. Replacement of Defective Parts within the warranty period.
3. Repair of Defects within the warranty period.

All claims MUST be substantiated with the following information:

1. Model Number of unit involved.
2. Date unit was purchased or first put into service.
3. Date of failure.
4. Nature of failure.